

Safety Data Sheets Manual

Dear Restaurant Manager:

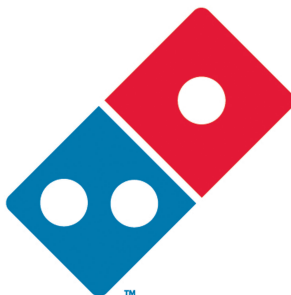
As your cleaning chemical supplier, we are pleased to provide you with this *Safety Data Sheets Manual*. This manual addresses the Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard (HCS) and proper handling of hazardous chemicals in the workplace. Many portions of this manual can be used to create a written Hazard Communications Program.

Included in the manual:

- A review of OSHA laws
- A training presentation script for you to read and complete with information specific to your restaurant
- Visual aids to help employees get a better understanding of Safety Data Sheets
- A training log to help you maintain records
- A hazardous chemical list to log the products in your restaurant that are considered hazardous
- A "non-routine tasks" list to record any occasional or unusual jobs during which an employee could experience chemical exposure
- A contractor acknowledgment form to verify training of any contract personnel who could have exposure to chemicals at your work location.
- An SDS for each SSDC branded product in your restaurant

If you have any questions about the manual or your responsibilities under the OSHA Hazard Communication Law, please contact Customer Service at (866) 491-0973.

Sincerely,





Safety Data Sheets Manual



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Review of Law

ATTENTION MANAGER:

UNDER THE PROVISIONS OF THE HAZARD COMMUNICATIONS STANDARD, EMPLOYERS ARE RESPONSIBLE FOR INFORMING EMPLOYEES OF THE HAZARDS AND THE IDENTITIES OF WORKFORCE CHEMICALS TO WHICH THEY ARE EXPOSED. FIRST YOU MUST DEVELOP A WRITTEN HAZARD COMMUNICATION PROGRAM.

YOUR WRITTEN HAZARD COMMUNICATION PROGRAM MUST ALWAYS BE AVAILABLE FOR REVIEW UPON REQUEST BY ANY EMPLOYEE OR OFFICIAL FROM OSHA OR THE DEPARTMENT OF LABOR.

All employers are required to provide information to all employees concerning chemical safety in the workplace, according to the Occupational Safety and Health Administration (OSHA) standard titled "Hazard Communication" (HCS) (29 CFR 1910.1200).

Enforcement of this law is similar to that of other OSHA rules and standards. The law's provisions are administered by the federal and various state Departments of Labor.

OSHA requires each workplace to have:

1. A written Hazard Communication Program that includes:
 - Identification of responsible individuals for program.
 - A list of all hazardous chemicals in the workplace.
 - A Safety Data Sheet (SDS) for each hazardous chemical in the workplace.
 - A description of the labeling format used on chemical containers.
 - A list of non-routine tasks that an employee may be asked to perform.
2. Chemical containers that are properly labeled, tagged or marked to identify hazards.

IMPORTANT

- This Safety Data Sheet (SDS) Manual is designed to assist you in complying with Federal Hazard Communication regulations. It does not address any additional state or local regulations.
- This SDS Manual is designed to provide information regarding its subject matter that is accurate as of its preparation date. SSDC has no obligation to update its contents to reflect or communicate any change in or interpretation of the applicable laws or regulations. SSDC does not assume any legal responsibility for any results arising from the use of this manual or any information in it. Please consult your legal adviser to make sure your restaurant meets all applicable health and safety regulations pertaining to your operation.
- Be sure you have an SDS for **each** hazardous chemical in your store. Contact your chemical product supplier **immediately** if you are missing any SDS. If you need an SDS for a SSDC product, call customer service at (866) 491-0973 (USA or Canada).



Safety Data Sheets Manual



Manager's Outline

1. TRAIN EMPLOYEES

IMPORTANT:

Employees are to be trained as part of their initial job orientation and then whenever a new hazard is introduced into their work area.

- A. Arrange time and place for training.
- B. Set out all materials needed.
 - 1. This written SDS Manual
 - 2. Visual aids (Located in Presentation Graphics, page 19)
 - 3. Employee Acknowledgement Form (Included on page 29)
 - 4. SDS for each hazardous chemical used in establishment
 - 5. List of each hazardous chemical used in establishment (Included on page 35)
- C. Begin training class by following presentation script (see page 7).

2. KEEP RECORDS

- A. Establish a Hazard Communication file that Includes:
 - 1. Signed, dated Employee Acknowledgement Form.
 - 2. List of hazardous chemicals.

3. UPDATE RECORDS AND RE-TRAIN EMPLOYEES

- A. Be sure you have an SDS for every hazardous chemical in your inventory. If you need an SDS for a SSDC product, call Customer Service at (866) 491-0973.
- B. Review and replace SDSs when new hazardous chemicals are brought into the restaurant or when you receive an updated SDS.
- C. Re-train each employee each time a new product is introduced.



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HAZARD COMMUNICATION SCRIPT

IMPORTANT

The following presentation script covers **ONLY** the components of the Hazard Communication Standard required by federal law. It does **NOT** cover any additional state or community regulations. Please refer to your individual state and community regulations to ensure compliance.



Safety Data Sheets Manual



Training Presentation Script - Section I

Every day, we come into contact with chemicals. We use toothpaste, soap and mouthwash. We fill our cars with gasoline and antifreeze. We even fertilize our plants. The truth is, modern life would be nearly impossible without chemicals.

However, as helpful as these chemicals are, if they're not used properly, they can cause injury or illness. The best way we can protect ourselves from the hazards of chemicals is to be sure we know how to use them correctly.

And that's what we're here to do today. We're going to show you how to safely use the chemicals in this restaurant. Today's presentation complies with the Hazard Communication Standard (HCS), which is a law administered by OSHA, the Occupational Safety and Health Administration.

To meet the requirements of the Hazard Communication Standard, our restaurant must have a written Hazard Communication Program that promotes safe handling and use of hazardous chemicals.

Part of this program is to inform you of your rights and provide you with proper training. The training you will receive today includes three areas:

1. How to identify hazardous chemicals.
2. How to read and understand product warning labels and Safety Data Sheets (which we call SDSs) and where to locate SDSs.
3. How to properly handle and use the chemicals in this restaurant.

Let's look at the first area, which is how to identify hazardous chemicals. What is a hazardous chemical? OSHA defines a hazardous chemical in a broad sense. It is any substance or mixture that can produce negative effects on the health or safety of a human being. Most cleaning chemicals are defined as hazardous. However, the level of hazard varies dramatically. Some chemicals may only be irritating. Others may be very dangerous. We try to use cleaning chemicals that have minimal or no hazards. But, because the chemicals we use can be hazardous, it's important for you to be able to identify those hazards and know how they can affect you.

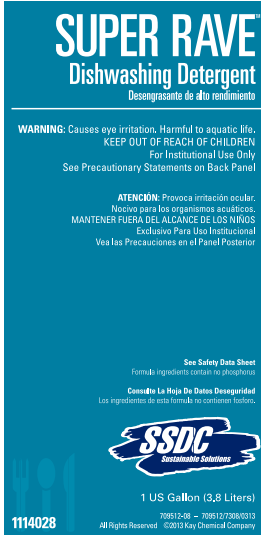
Chemical hazards fall into two categories: Physical hazards and health hazards.

A physical hazard is one that creates a hazardous situation outside the body. For example, if a chemical can cause a fire or explosion it is a physical hazard.

A health hazard, on the other hand, is a hazard that causes health damage. There are two types of health hazards: acute and chronic.

An acute health hazard does damage to your body in a short amount of time. For example, if you're washing dishes and you get dish detergent in your eyes, it immediately stings. Or, if you use a soap that irritates your skin, it could cause a rash.

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SUPER RAVE
Dishwashing Detergent
Desengrasante de alto rendimiento

WARNING: Causes eye irritation. Harmful to aquatic life. KEEP OUT OF REACH OF CHILDREN For Institutional Use Only See Precautionary Statements on Back Panel

ATENCIÓN: Provoca irritación ocular. Nocivo para los organismos acuáticos. MANTENER FUERA DEL ALCANCE DE LOS NIÑOS Exclusivo Para Uso Institucional. Ver las Precauciones en el Panel Posterior


See Safety Data Sheet Formula ingredients contain no phosphates.

Contiene La Hoja De Datos De Seguridad Los ingredientes de esta fórmula no contienen fosfatos.



1 US Gallon (3.8 Liters)

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SUPER RAVE
Dishwashing Detergent
Desengrasante de alto rendimiento

1114028

WARNING: Causes eye irritation. Harmful to aquatic life.

PREVENTION: Avoid release to the environment. Wash hands thoroughly after handling.

RESPONSE: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.


DIRECTIONS FOR USE:
1. Scrape or rinse off excess food particles from items before washing.
2. Submerge cups, pans, and utensils into detergent solution.
3. Wash items thoroughly with sponge, cloth, or scrub pad, and rinse with clean water.
4. Submerge in appropriate sanitizer solution for 90 seconds (120 seconds for the state of Wisconsin).
5. Remove and let air dry.

Contains/Contiene: Water (7732-18-9), Sodium (143-10-15) Ortho Sulfonate (9559-26-2), Sodium lauryl sulfate (9559-26-2), Cocamine Oxide (91704-24-7), Sodium N-lauryl Sulfonate (1300-42-7), Propylene Glycol (57-55-8), Ethanol (64-17-5).

DILUTION RATIO: 1:120

WARNING INSTRUCTIONS: Super Rave for use exclusively through SSDC auto-deterging system.

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A chronic health hazard affects the body slowly. For instance, breathing in gasoline fumes on a daily basis can cause lung cancer. Or, as many of us have heard before, breathing cigarette smoke can cause lung cancer.

To be sure you know what kind of potential hazards exist, the Hazard Communication Standard requires all chemical manufacturers and suppliers to clearly identify hazards in two ways:

- First, on the warning label attached to each container of the chemical, and
- Second, on the SDS that is supplied by the manufacturer.

Chemical manufacturers and suppliers, however, aren't the only ones with a responsibility. We, as an employer, and you, as employees, also have responsibilities. As employers, we are responsible for:

- Letting you know which chemicals are considered hazardous in our restaurant,
- Making sure that all chemical containers have the appropriate labeling,
- Having a current SDS for each hazardous chemical,
- Providing all the protective equipment necessary for proper safety, and
- Providing the training you need to know how to handle hazardous chemicals safely.

Graphic 1

SAFETY DATA SHEET		SSDC
SUPER RAVE DISHWASHING DETERGENT		
Section 1. Chemical product and company identification		
Product name	SUPER RAVE DISHWASHING DETERGENT	
Recommended use and restrictions	Manual Warewashing Detergent	
Product dilution information	0.2%	
Supplier's information	SSDC Division Kay Chemical Company 4050 Corporate Dr., #100 Grapevine, TX 76051 1-800-525-7732 (Customer Service) 915484-01	
Code	915484-01	
Date of issue	20 Feb 2013	
EMERGENCY HEALTH INFORMATION: 1-800-391-1504		
Section 2. Hazards identification		
GHS Classification	Product AS SOLD SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B AQUATIC TOXICITY (ACUTE) - Category 3	Product AT USE DILUTION Not classified.
GHS label elements	Signal word : Warning	No signal word.
Hazard statements	Causes eye irritation. Harmful to aquatic life.	No known significant effects or critical hazards.
Precautionary statements	Prevention : Avoid release to the environment. Wash hands thoroughly after handling. Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Storage : No other specific measures identified. Disposal : See section 13 for waste disposal information. Other hazards : None known.	Wash thoroughly after handling. Get medical attention if symptoms appear. No other specific measures identified. See section 13 for waste disposal information. None known.

Graphic 2

Distribute or show Graphics 1 and 2, located in Presentation Graphics, as copy dictates.

EMPLOYER PROVIDES:

- List of hazardous chemicals
- Appropriate labeling for chemical containers
- Current SDS for each hazardous chemical
- Protective equipment, if necessary
- Safety training

Distribute or show Graphic 3, located in Presentation Graphics. Point to this section of Graphic 3.



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**EMPLOYEE SHOULD:**

- Read and follow instructions on labels and SDSs
- Use protective equipment when recommended
- Follow safe work practices as trained

Point to this section of Graphic 3.

In turn, you need to fulfill your part of the responsibility.

It's up to you to follow the precautions necessary to protect yourself. To do that you should:

- Read, understand, and follow all instructions on warning labels and SDSs,
- Always use protective equipment when it's recommended, and
- Follow the safe work practices we learn about in training.

Before we move on to the second area, let's look at a few of the more common terms you might have heard before or seen on product labels.

First, an **irritant** is a substance that causes temporary eye, skin or respiratory reactions, such as minor stinging, itching or tearing.

The second term is corrosive. **Corrosive** means that a substance causes burns or permanent damage to human tissue, such as skin and eyes, upon contact.

Third is toxic. A **toxic** substance is one that can cause disease or immediate or long-term injury to the body in certain conditions. The fourth term is **flammable**. A flammable substance is one that catches fire easily and burns quickly. And finally, **carcinogenic** means that a substance is capable of causing cancer.

Now, don't let these terms concern you. Just because we've defined these words does NOT necessarily mean you will come in contact with chemicals that have these types of hazards. The SSDC cleaning products we use in our restaurant present minimal hazards. A little later on we'll go over each chemical and let you know exactly what you're working with.

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SUPER RAVE
Dishwashing Detergent
Desengrasante de alto rendimiento

WARNING: Causes eye irritation, Harmful to aquatic life, KEEP OUT OF REACH OF CHILDREN For Institutional Use Only See Precautionary Statements on Back Panel

ATENCIÓN: Provoca irritación ocular. Nocivo para los organismos acuáticos. MANTENER FUERA DEL ALCANCE DE LOS NIÑOS. Exclusivo Para Uso Institucional. Vea las Precauciones en el Panel Posterior

See Safety Data Sheet Formula ingredients subject to change

Consulta La Hoja De Datos Desengrasante Los ingredientes de esta fórmula no cambian, fíjese.




1 US Gallon (3.8 Liters)
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SUPER RAVE
Dishwashing Detergent
Desengrasante de alto rendimiento

1114028

WARNING: Causes eye irritation, Harmful to aquatic life.
PREVENTION: Avoid release to the environment. Wash hands thoroughly after handling.
RESPONSE: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
DIRECTIONS FOR USE:
1. Scrape or rinse all excess food particles from items before washing.
2. Submerge pots, pans, and utensils into detergent solution.
3. Wash items thoroughly with sponge, cloth, or scrub pad, and rinse with clean water.
4. Submerge in appropriate sanitizer solution for 60 seconds (120 seconds for the state of Wisconsin).
5. Remove and let air dry.
Contains/Contiene: Water (7732-18-5), Sodium (C14-C16) Olefin Sulfonate (68439-57-6), Sodium Laureth Sulfate (68585-34-2), Cocamine Oxide (61788-04-7), Sodium Xylene Sulfonate (1300-72-7), Propylene Glycol (57-55-6), Ethanol (64-17-5).
DILUTION RATIO: 1:1250
MIXING INSTRUCTIONS: Super Rave for use exclusively through SSDC auto-dispensing system
Medical Emergency, Emergencia Médica Call (800)391-1504
Distributed by: SSDC Division, Kay Chemical Company 4050 Corporate Drive, #100 Grapevine, Texas 76051, USA 800-532-7732
All Rights Reserved ©2013 Kay Chemical Company

ATENCIÓN: Provoca irritación ocular. Nocivo para los organismos acuáticos.
PREVENCIÓN: No dispersar en el medio ambiente. Lávese cuidadosamente las manos después de la manipulación.
INTERVENCIÓN EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quite las lentes de contacto, cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado. Si la irritación ocurre persiste: Buscar atención médica.
DIRECCIONES PARA SU USO:
1. Raspe y enjuague todos los artículos de alimentos en exceso de todos los artículos antes de lavar.
2. Sumerja en la solución apropiada de sanificante por 60 segundos (120 segundos para el estado de Wisconsin).
3. Lave todos los artículos completamente con una esponja, o fibra, y enjuague con agua limpia.
4. Sumerja en la solución apropiada de sanificante por 60 segundos (120 segundos para el estado de Wisconsin).
5. Remueva y deje que se sequen con el aire.
DILUSIÓN: 1:1250
INSTRUCCIONES PARA MEZCLAR: Super Rave para usar exclusivamente en el sistema dispensador automatico de SSDC
709554-01 709547301/0313



How to read and understand Product warning labels and SDSs

All containers of hazardous chemicals must have labels. These labels are designed to provide us:

- The name of the chemical,
- Any physical and health hazards the chemical may have, and
- The name, address and phone number of a responsible source of information about the product.

Here's a sample label. This label shows us all the warning information we need.

The name of our sample chemical is SSDC SUPER RAVE Dishwashing Detergent. According to this label, It's used as a cleaning detergent in manual warewashing applications.

Any physical or health hazards associated with SSDC SUPER RAVE Dishwashing Detergent are listed on the label. It says "WARNING: Causes eye irritation. IF IN EYES: Rinse cautiously with water for several minutes."

The first aid information is also on the label. In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.

Also on this label, the manufacturer, SSDC Division, Kay Chemical Company, provides their name, address, and phone number. And, there is a 24-hour emergency number listed below the first aid.

Show Graphic 1 again. Point to different areas on the label as you go over them.

SUPER RAVE
Dishwashing Detergent
Desengrasante de alto rendimiento

1114028

WARNING: Causes eye irritation, Harmful to aquatic life.
PREVENTION: Avoid release to the environment. Wash hands thoroughly after handling.
RESPONSE: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
DIRECTIONS FOR USE:
1. Scrape or rinse all excess food particles from items before washing.
2. Submerge pots, pans, and utensils into detergent solution.
3. Wash items thoroughly with sponge, cloth, or scrub pad, and rinse with clean water.
4. Submerge in appropriate sanitizer solution for 60 seconds (120 seconds for the state of Wisconsin).
5. Remove and let air dry.
Contains/Contiene: Water (7732-18-5), Sodium (C14-C16) Olefin Sulfonate (68439-57-6), Sodium Laureth Sulfate (68585-34-2), Cocamine Oxide (61788-04-7), Sodium Xylene Sulfonate (1300-72-7), Propylene Glycol (57-55-6), Ethanol (64-17-5).
DILUTION RATIO: 1:1250
MIXING INSTRUCTIONS: Super Rave for use exclusively through SSDC auto-dispensing system
Medical Emergency, Emergencia Médica Call (800)391-1504
Distributed by: SSDC Division, Kay Chemical Company 4050 Corporate Drive, #100 Grapevine, Texas 76051, USA 800-532-7732
All Rights Reserved ©2013 Kay Chemical Company

ATENCIÓN: Provoca irritación ocular. Nocivo para los organismos acuáticos.
PREVENCIÓN: No dispersar en el medio ambiente. Lávese cuidadosamente las manos después de la manipulación.
INTERVENCIÓN EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quite las lentes de contacto, cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado. Si la irritación ocurre persiste: Buscar atención médica.
DIRECCIONES PARA SU USO:
1. Raspe y enjuague todos los artículos de alimentos en exceso de todos los artículos antes de lavar.
2. Sumerja en la solución apropiada de sanificante por 60 segundos (120 segundos para el estado de Wisconsin).
3. Lave todos los artículos completamente con una esponja, o fibra, y enjuague con agua limpia.
4. Sumerja en la solución apropiada de sanificante por 60 segundos (120 segundos para el estado de Wisconsin).
5. Remueva y deje que se sequen con el aire.
DILUSIÓN: 1:1250
INSTRUCCIONES PARA MEZCLAR: Super Rave para usar exclusivamente en el sistema dispensador automatico de SSDC
709554-01 709547301/0313



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Show Graphic 2 again.

Point to areas on the SDS as you go over them.

How to read and understand SAFETY DATA SHEETS

If you ever need to know more about a product's potential hazards than what's provided on the label, you can check the Safety Data Sheet which, remember, we call an SDS.

SDSs contain detailed health and safety information on hazardous chemicals.

They list the precautions you need to take when handling a particular chemical as well as detailed emergency and first aid procedures in case of an accident.

The SDSs are available for you to review at any time. Our SDSs are located _____ (indicate where located in store). You are welcome to request to see them and ask questions about them.

Here's a sample SDS. Let's take a look at it and go over the important elements of it.

SDSs must provide you certain information. They must list:

- Chemical identification,
- Name, address and telephone number of the manufacturer and the date the SDS was prepared,
- Physical and chemical characteristics,
- Physical hazards,
- Health hazards,
- Primary routes of entry into the body,
- Permissible exposure limits,
- Indications of carcinogenicity, if any,
- Precautions for safe handling,
- Cleanup measures for spills and leaks,
- Control measures, and
- Emergency first aid procedures.

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SAFETY DATA SHEET

SUPER RAVE DISHWASHING DETERGENT



Section 1. Chemical product and company identification

Product name : SUPER RAVE DISHWASHING DETERGENT
 Recommended use and restrictions : Manual Warewashing Detergent
 Use only for the purpose on the product label.

Product dilution information : 0.2%

Supplier's information : SSDC Division
 Kay Chemical Company
 4050 Corporate Dr., #100
 Grapevine, TX, 76051
 1-800-532-7732 (Customer Service)
 Code : 915484-01
 Date of issue : 20 Feb 2013
 EMERGENCY HEALTH INFORMATION: 1-800-391-1504

Section 2. Hazards identification

Product AS SOLD		Product AT USE DILUTION
GHS Classification	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B AQUATIC TOXICITY (ACUTE) - Category 3	Not classified.
GHS label elements		
Signal word	: Warning	No signal word.
Hazard statements	: Causes eye irritation. Harmful to aquatic life.	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Avoid release to the environment. Wash hands thoroughly after handling.	Wash thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists. Get medical attention.	Get medical attention if symptoms appear.
Storage	: No other specific measures identified.	No other specific measures identified.
Disposal	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards	: None known.	None known.

Page: 1/7

Point to specific areas on the SDS as you go over them.

SUPER RAVE DISHWASHING DETERGENT

20 Feb 2013

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM C14-16 OLEFIN SULFONATE	5 - 20	68439-57-6
COCAINE OXIDE	1 - 5	61788-90-7
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	1 - 5	68585-34-2
SODIUM XYLENE SULFONATE	1 - 5	1300-72-7
ALCOHOL	1 - 5	64-17-5

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

Product AS SOLD		Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxides/oxides
Specific fire-fighting methods	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Page: 2/7

These terms sound difficult and confusing, but we're going to look at each one so you can see how SDSs protect you.

The layout and design of an SDS is prescribed by OSHA. For today's review we will use an SDS from SSDC.

If you look on your SDS handout, **Section I** provides identification information. The common name and the chemical name of the material will be listed here. Let me give you an example of a chemical's identification. NaCl is a chemical, and salt is its common name. The chemical name for salt is sodium chloride. If the chemical name is the trade secret, the manufacturer does not have to list it here, but they are still required to provide this information to a qualified health professional in a medical emergency.

The identification section also include the name and address of the chemical manufacturer, emergency phone numbers, and the date the form was written or last updated.

Section 2 identifies any hazards, label elements, and precautionary statements.

Section 3 provides the composition and/or information on the ingredients.

In **Section 4** you'll find first aid information. This section provides emergency and first aid procedures in the event of exposure.

Fire fighting measures are provided in **Section 5**. This section explains the best way to put out a fire involving that chemical.

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SUPER RAVE DISHWASHING DETERGENT

20 Feb 2013

Section 6. Accidental release measures

Personal precautions	Product AS SOLD : Use personal protective equipment as required.	Product AT USE DILUTION Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Use a water rinse for final clean-up.	: Use a water rinse for final clean-up.

Section 7. Handling and storage

Handling	Product AS SOLD : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.	Product AT USE DILUTION Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 5 and 50°C	: Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters	
Ingredient name	Exposure limits
ALCOHOL	ACGIH TLV (United States, 3/2012). STEL: 1000 ppm 15 minutes OSHA PEL (United States, 6/2010). TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours.
Appropriate engineering controls	Product AS SOLD : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection	Product AT USE DILUTION Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Eye protection	: No protective equipment is needed under normal use conditions.
Hand protection	: No protective equipment is needed under normal use conditions.
Skin protection	: No protective equipment is needed under normal use conditions.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

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Section 6 covers accidental release measures. Here you will find information on personal and environmental precautions as well as proper methods of containment and cleanup.

Precautions for safety handling and storage are covered in Section 7.

In Section 8 the SDS lists special protection information. In this section you can find what types of protective clothing or equipment, if any, you may need when handling the product. The section also lists safe exposure limits, if any have been set by OSHA.

SUPER RAVE DISHWASHING DETERGENT

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Section 9. Physical and chemical properties

Physical state	Product AS SOLD : Liquid.	Product AT USE DILUTION Liquid.
Color	: Blue	Clear
Odor	: Floral	Floral
pH	: 6 to 9 (100%)	6 to 9
Flash point	: > 100°C	> 100°C
Explosion limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Melting point	: Not available.	
Boiling point	: >100°C (>212°F)	
Evaporation rate (butyl acetate = 1)	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 1.025 to 1.045 (Water = 1)	
Solubility	: Easily soluble in the following materials: cold water and hot water.	
Partition coefficient: n-octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Odor threshold	: Not available.	
Viscosity	: Not available.	

Section 10. Stability and reactivity

Stability	Product AS SOLD : The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Materials to avoid	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure	: Skin contact, Eye contact, Inhalation, Ingestion
Symptoms	Product AS SOLD
Eye contact	: Adverse symptoms may include the following: irritation watering redness
Skin contact	: No specific data.
Inhalation	: No specific data.
Ingestion	: No specific data.
Acute toxicity	

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In Section 9 physical and chemical properties are listed. In other words, this section describes how the chemical looks, how it smells, and how it behaves.

Section 10 describes the stability and reactivity of the material.

Section 11 provides toxicological information.

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Section 11. Toxicological information

Eye contact	: Causes eye irritation.	No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

Toxicity data

Product/ingredient name	Result	Species	Dose
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	LD50 Dermal	Rabbit	6300 mg/kg
amines, coco alkyldimethyl, n-oxides	LD50 Oral	Rat	3983 mg/kg
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts	LD50 Oral	Rat	>2174 mg/kg
	LD50 Oral	Rat	846 mg/kg
	LD50 Dermal	Rat	>2000 mg/kg
Benzenesulfonic acid, dimethyl-, sodium salt (1:1)	LD50 Oral	Rat	>2500 mg/kg
	LC50 Inhalation Dusts and mists	Rat	>6.2 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>7000 mg/kg
ethanol	LC50 Inhalation Vapor	Rat	117 mg/l
	LD50 Dermal	Rabbit	15800 mg/kg
	LD50 Oral	Rat	10470 mg/kg

Chronic toxicity

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	Acute LC50 4.2 mg/l	Fish	96 hours
amines, coco alkyldimethyl, n-oxides	Acute LC50 <1 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts	Acute LC50 28 mg/l	Fish	96 hours
Benzenesulfonic acid, dimethyl-, sodium salt (1:1)	Acute EC50 230 mg/l	Aquatic plants	96 hours
ethanol	Acute LC50 11000 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

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SUPER RAVE DISHWASHING DETERGENT

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Section 13. Disposal considerations

Product AS SOLD		Product AT USE DILUTION
Disposal methods : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.		Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No listed substance
SARA 302/304 emergency planning and notification: No listed substance

SARA 313

Product name	CAS number	Concentration
Form R - Reporting requirements		: No listed substance

California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.)

Health	1	0	0
Flammability	0	0	0
Instability/Reactivity	0	0	0
Special			

Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0

Health	0	0	0
Flammability	0	0	0
Instability/Reactivity	0	0	0
Special			

Page: 6/7

Sections 12 and 13 describe ecological (environmental) considerations and waste disposal.

Section 14 provides transportation information.

Section 15 lists all other the regulatory information about the material.

Section 16 provides the date of preparation or last revision as well as any additional information that the manufacturer wishes to provide.

SDS's provide us a lot of information, and it's important that you know how to use them.

Now that we have reviewed the basics to identifying hazardous chemicals, reading product labels and SDS's, we will go over these items in detail for each hazardous chemical in our restaurant.

Remember, you are welcome to review our written program at any time and ask questions about it.

Our written program is kept in this binder, and we keep it in the _____ (Indicate where located in store). In it you can find:

- a list of all the hazardous chemicals in this restaurant,
- SDS's for all hazardous chemicals, labels and health and safety practices.

Do you have any questions about anything we've discussed?



Safety Data Sheets Manual



Training Presentation Script - Section II

SSDC Branded Products

Let's start the third area of this training which is how to properly handle and use the chemicals we use in our restaurant. After we go over all the products, we have a form for you to sign that simply says you received all your training.

— IMPORTANT —

SECTION II OF THIS PRESENTATION FULFILLS YOUR HAZARD COMMUNICATION TRAINING FOR ONLY SSDC BRANDED PRODUCTS.

Please note that the following chemical training presentation is designed to be used **ONLY** with SSDC branded products.

If you have products from other manufacturers that are considered hazardous, you must also include them in your Hazard Communication training. Please verify that these products are appropriately labeled and that an SDS for them is included in the program.



Safety Data Sheets Manual



**This section is completed for sample purposes.
Fill in the blanks as the label dictates. Each product may be a little different. Hold up each chemical as you discuss it. Refer to the SDS and point to an area as necessary.*

Be sure you review the following items:

- Product name
- Product application
- Health/physical hazards
- First aid
- Special precautions, if any

Continue in the same manner, filling in the necessary information until all SSDC branded products are discussed.

Be sure to check the special precautions section on each SDS.

When you have finished reviewing all SSDC products and their SDSs, close the training session and have each employee sign and date the Training Log.

Let's start looking at each product. This is SSDC SUPER RAVE Dishwashing Detergent. It's used as a cleaning detergent in manual warewashing applications. It says on the label that it causes eye irritation. The first aid information is also provided on the label. If you get this product in your eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. SKIN: No known effect after skin contact. Rinse with water for a few minutes. INHALATION: No special measures required. Treat symptomatically. INGESTION: Get medical attention if symptoms occur.

The SDS also provides this safety information as well as other precautions. For SUPER RAVE Dishwashing Detergent there is no special precautions. However, other products may have special mixing or storage instructions.

Does anyone have any questions about any of these products? Now, I'm going to pass around a Training Log. This confirms that you received your training. Please read the statement carefully, then write today's date in the left column, print your name in the middle column, and sign your name in the right column.

Remember, if you're not sure about how to use a product, or how to protect yourselves from any potential hazards, read the label or look at the SDS. Our SDS Manual is kept in _____ (indicate where located in store), and SDSs which are available to you upon request, are located _____ (indicate where located in store). If you need more information or you don't understand something, ask me. I'm always available to answer your questions. Thanks for your attention during this training. We know with your help we can have a safe work environment.



**Safety Data Sheets
Manual**



PRESENTATION GRAPHICS

Graphic 1

SUPER RAVE™

Dishwashing Detergent


Desengrasante de alto rendimiento

WARNING: Causes eye irritation. Harmful to aquatic life.
KEEP OUT OF REACH OF CHILDREN
For Institutional Use Only
See Precautionary Statements on Back Panel

ATENCIÓN: Provoca irritación ocular.
Nocivo para los organismos acuáticos.
MANTENER FUERA DEL ALCANCE DE LOS NIÑOS
Exclusivo Para Uso Institucional
Vea las Precauciones en el Panel Posterior

See Safety Data Sheet
Formula ingredients contain no phosphorus

Consulte La Hoja De Datos Deseguridad
Los ingredientes de esta formula no contienen fosforo.



1 US Gallon (3.8 Liters)

1114028

709512-08 – 709512/7308/0313
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SUPER RAVE™

Dishwashing Detergent

Desengrasante de alto rendimiento

1114028

WARNING: Causes eye irritation. Harmful to aquatic life.

PREVENTION: Avoid release to the environment. Wash hands thoroughly after handling.

RESPONSE: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

DIRECTIONS FOR USE

1. Scrape or rinse all excess food particles from items before washing.
2. Submerge pots, pans, and utensils into detergent solution.
3. Wash items thoroughly with sponge, cloth, or scrub pad, and rinse with clean water.
4. Submerge in appropriate sanitizer solution for 60 seconds (120 seconds for the state of Wisconsin).
5. Remove and let air dry.

Contains/Contiene: Water (7732-18-5), Sodium (C14-C16) Olefin Sulfonate (68439-57-6), Sodium Laureth Sulfate (68585-34-2), Cocamine Oxide (61788-90-7), Sodium Xylene Sulfonate (1300-72-7), Propylene Glycol (57-55-6), Ethanol (64-17-5).

DILUTION RATIO: 1:1280

MIXING INSTRUCTIONS:
Super Rave for use exclusively through SSDC auto-dispensing system

Medical Emergency, Emergencia Medica
Call (800)391-1504

Distributed by:
SSDC Division, Kay Chemical Company
4050 Corporate Drive, #100
Grapevine, Texas 76051, USA
800.532.7732

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700554-01 700554/7301/0313

INSTRUCCIONES PARA MEZCLAR:
Super Rave para usar exclusivamente en el sistema dispensador automatico de SSDC

Graphic 2

SAFETY DATA SHEET SUPER RAVE DISHWASHING DETERGENT



SUPER RAVE DISHWASHING DETERGENT 20 Feb 2013

SUPER RAVE DISHWASHING DETERGENT 20 Feb 2013

Section 1. Chemical product and company identification

Product name : SUPER RAVE DISHWASHING DETERGENT
Recommended use and restrictions : Manual Warewashing Detergent
Use only for the purpose on the product label.

Product dilution information : 0.2%

Supplier's information : SSDC Division
Kay Chemical Company
4550 Corporate Dr. #110
Grapevine, TX 76051
1-800-532-7732 (Customer Service)
Code : 915484-01
Date of issue : 20 Feb 2013
EMERGENCY HEALTH INFORMATION: 1-800-391-1504

Section 2. Hazards identification

Product AS SOLD : Product AT USE DILUTION
GHS Classification : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
Aquatic Toxicity (ACUTE) - Category 3
GHS label elements : Warning
Signal word : Warning
Hazard statements : Causes eye irritation.
Harmful to aquatic life.
Precautionary statements : Avoid release to the environment. Wash hands thoroughly after handling.
Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, Get medical attention.
Storage : No other specific measures identified.
Disposal : See section 13 for waste disposal information.
Other hazards : None known.

Section 3. Composition/information on ingredients

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM C14-16 OLEFIN SULFONATE	5 - 20	68429-57-6
COCAINE OXIDE	1 - 5	61788-90-7
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts	1 - 5	68585-94-2
SODIUM XYLENE SULFONATE	1 - 5	1300-72-7
ALCOHOL	1 - 5	64-17-5

Product AT USE DILUTION
Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Skin contact : No known effect after skin contact. Rinse with water for a few minutes.
Inhalation : No special measures required. Treat symptomatically.
Ingestion : Get medical attention if symptoms occur.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD
Suitable fire extinguishing media : Use water spray, fog or foam.
Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, metal oxides/bases.
Specific fire-fighting methods : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Product AS SOLD
Personal precautions : Use personal protective equipment as required.
Environmental precautions : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up : Use a water rinse for final clean-up.
Product AT USE DILUTION
Use personal protective equipment as required.
Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Use a water rinse for final clean-up.

Section 7. Handling and storage

Product AS SOLD
Handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage : Keep out of reach of children. Keep container tightly closed.
Store between the following temperatures: 5 and 50°C.
Product AT USE DILUTION
Wash thoroughly after handling.
Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters
Ingredient name : ALCOHOL
Exposure limits : ACGIH TLV (United States, 3/2012), STEL: 1000 ppm/15 minutes
OSHA PEL (United States, 6/2010), TWA: 1000 mg/m³ 8 hours
NIOSH REL (United States, 6/2009), TWA: 1000 ppm/10 hours
TWA: 1900 mg/m³ 10 hours.
Product AS SOLD
Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection
Eye protection : No protective equipment is needed under normal use conditions.
Hand protection : No protective equipment is needed under normal use conditions.
Skin protection : No protective equipment is needed under normal use conditions.
Respiratory protection : A respirator is not needed under normal and intended conditions of product use.
Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
Product AT USE DILUTION
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
No protective equipment is needed under normal use conditions.
No protective equipment is needed under normal use conditions.
No protective equipment is needed under normal use conditions.
A respirator is not needed under normal and intended conditions of product use.

SUPER RAVE DISHWASHING DETERGENT 20 Feb 2013

Section 9. Physical and chemical properties

Product AS SOLD : Product AT USE DILUTION
Physical state : Liquid.
Color : Blue.
Odor : Floral.
pH : 8 to 9 (100%).
Flash point : > 100°C.
Explosion limits : Not available.
Flammability (solid, gels) : Not available.
Boiling point : Not available.
Boiling point : >100°C (>212°F)
Evaporation rate : Not available.
Evaporation rate (butyl acetate = 1) : Not available.
Vapor pressure : Not available.
Vapor density : Not available.
Relative density : 1.025 to 1.045 (Water = 1)
Solubility : Easily soluble in the following materials: cold water and hot water.
Partition coefficient, n-octanol/water : Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Odor threshold : Not available.
Viscosity : Not available.

Section 10. Stability and reactivity

Product AS SOLD
Stability : The product is stable.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid : No specific data.
Materials to avoid : Not available.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion
Symptoms
Eye contact : Adverse symptoms may include the following: irritation, watering, redness.
Skin contact : No specific data.
Inhalation : No specific data.
Ingestion : No specific data.
Acute toxicity : No specific data.

SUPER RAVE DISHWASHING DETERGENT 20 Feb 2013

Section 12. Toxicological information

Eye contact : Causes eye irritation.
Skin contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Toxicity data

Product/ingredient name	Result	Species	Dose
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	LD50 Dermal	Rabbit	6300 mg/kg
amines, coco alkyl(dimethyl), n-oxides	LD50 Oral	Rat	3983 mg/kg
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts	LD50 Dermal	Rat	>2174 mg/kg
	LD50 Oral	Rat	848 mg/kg
	LD50 Dermal	Rat	>2000 mg/kg
Benzenesulfonic acid, dimethyl-, sodium salt (1:1)	LD50 Oral	Rat	>2500 mg/kg
	LC50 Inhalation Dusts and mists	Rat	>6.2 mg/l
ethanol	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>7000 mg/kg
	LC50 Inhalation Vapor	Rat	117 mg/l
	LD50 Dermal	Rabbit	16800 mg/kg
	LD50 Oral	Rat	10470 mg/kg

Chronic toxicity
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD
Ecotoxicity : This material is harmful to aquatic life.
Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	Acute LC50 4.2 mg/l	Fish	96 hours
amines, coco alkyl(dimethyl), n-oxides	Acute LC50 <1 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts	Acute LC50 28 mg/l	Fish	96 hours
Benzenesulfonic acid, dimethyl-, sodium salt (1:1)	Acute EC50 230 mg/l	Aquatic plants	96 hours
ethanol	Acute LC50 11000 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

SUPER RAVE DISHWASHING DETERGENT 20 Feb 2013

Section 13. Disposal considerations

Product AS SOLD
Disposal methods : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
Product AT USE DILUTION
Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Containment shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT
DOT Classification : Not regulated.
HAZARDOUS
IMDG/IMCO Classification : Not regulated.
For transport in bulk, see shipping documents for specific transport information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD
U.S. Federal regulations
TSCA 8(b) inventory : All components are listed or exempted.
SARA 302/304/311/112 extremely hazardous substances : No listed substance
SARA 302/304 emergency planning and notification : No listed substance
SARA 313 : Product name
Farm R. Reporting requirements : No listed substance
California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD
Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.)

Health	1
Flammability	0
Instability/Reactivity	0
Special	0

Product AT USE DILUTION

Health	0
Flammability	0
Instability/Reactivity	0
Special	0

SUPER RAVE DISHWASHING DETERGENT 20 Feb 2013

Section 16. Other information

Date of issue : 20 Feb 2013
Prepared by : Regulatory Affairs
1-800-352-6326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

SUPER RAVE DISHWASHING DETERGENT 20 Feb 2013

SUPER RAVE DISHWASHING DETERGENT 20 Feb 2013

This sheet may be reproduced for instructional use only.

Graphic 3

EMPLOYER PROVIDES:

- List of hazardous chemicals
- Current SDS for each hazardous chemical
- Protective equipment, if necessary
- Safety training

EMPLOYEE SHOULD:

- Read and follow instructions on labels and SDSs
- Use protective equipment when recommended
- Follow safe work practices as trained



Safety Data Sheets Manual



FORMS

- Employee Acknowledgement Form
- Hazardous Chemical List
- Non-Routine Tasks
- Contractor Acknowledgement Form



Safety Data Sheets Manual



Non-Routine Tasks

List any non-routine task where an employee could be exposed to hazardous chemicals.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____

**SAFETY DATA SHEET****BRILLIANT STAINLESS STEEL POLISH****SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : BRILLIANT STAINLESS STEEL POLISH
 Other means of identification : not applicable
 Recommended use : Cleaning product
 Restrictions on use : Reserved for industrial and professional use.
 Product dilution information : Product is sold ready to use.
 Company : SSDC Division
 Kay Chemical Company
 4050 Corporate Dr., #100
 Grapevine, Texas USA 76051-2326
 1-800-532-7732 (Customer Service)
 Emergency telephone : 1-800-391-1504
 Issuing date : 04/14/2014

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS Label element

Precautionary Statements : **Prevention:**
 Wash hands thoroughly after handling.
Response:
 Get medical advice/ attention if you feel unwell.
Storage:
 Store in accordance with local regulations.
 Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Aliphatic hydrocarbons	64742-54-7	30 - 60

SECTION 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.
 Protection of first-aiders : No special precautions are necessary for first aid responders.
 Notes to physician : Treat symptomatically.

924886-02 1 / 7

SAFETY DATA SHEET**BRILLIANT STAINLESS STEEL POLISH****See toxicological information (Section 11)****SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Unsuitable extinguishing media : None known.
 Specific hazards during fire fighting : Not flammable or combustible.
 Hazardous combustion products : Carbon oxides
 Special protective equipment for fire-fighters : Use personal protective equipment.
 Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
 Environmental precautions : Do not allow contact with soil, surface or ground water.
 Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Wash hands thoroughly after handling. Use only with adequate ventilation.
 Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
 Storage temperature : 0 °C to 50 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Aliphatic hydrocarbons	64742-54-7	TWA (Inhalable)	5 mg/m ³	ACGIH

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SAFETY DATA SHEET**BRILLIANT STAINLESS STEEL POLISH**

	fraction		
	TWA (Mist)	5 mg/m ³	NIOSH REL
	STEL (Mist)	10 mg/m ³	NIOSH REL
	TWA (Mist)	5 mg/m ³	OSHA Z1

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.
 Hygiene measures : Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Emulsion
 Color : opaque, white
 Odor : odorless
 pH : 9.2 - 9.6, 100 %
 Flash point : not applicable, Does not sustain combustion.
 Odor Threshold : no data available
 Melting point/freezing point : no data available
 Initial boiling point and boiling range : no data available
 Evaporation rate : no data available
 Flammability (solid, gas) : no data available
 Upper explosion limit : no data available
 Lower explosion limit : no data available
 Vapor pressure : no data available
 Relative vapor density : no data available
 Relative density : 0.95 - 0.96
 Water solubility : soluble
 Solubility in other solvents : no data available
 Partition coefficient: n-octanol/water : no data available
 Autoignition temperature : no data available
 Thermal decomposition : no data available
 Viscosity, kinematic : no data available
 Explosive properties : no data available

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SAFETY DATA SHEET**BRILLIANT STAINLESS STEEL POLISH**

Oxidizing properties : The substance or mixture is not classified as oxidizing.
 Molecular weight : no data available
 VOC : no data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
 Conditions to avoid : None known.
 Incompatible materials : None known.
 Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Health injuries are not known or expected under normal use.
 Skin : Health injuries are not known or expected under normal use.
 Ingestion : Health injuries are not known or expected under normal use.
 Inhalation : Health injuries are not known or expected under normal use.
 Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : No symptoms known or expected.
 Skin contact : No symptoms known or expected.
 Ingestion : No symptoms known or expected.
 Inhalation : No symptoms known or expected.

Toxicity

Acute oral toxicity : no data available
 Acute inhalation toxicity : 4 h Acute toxicity estimate : > 10 mg/l
 Acute dermal toxicity : no data available
 Skin corrosion/irritation : no data available

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SAFETY DATA SHEET

BRILLIANT STAINLESS STEEL POLISH

Serious eye damage/eye irritation : no data available
 Respiratory or skin sensitization : no data available
 Carcinogenicity : no data available
 Reproductive effects : no data available
 Germ cell mutagenicity : no data available
 Teratogenicity : no data available
 STOT-single exposure : no data available
 STOT-repeated exposure : no data available
 Aspiration toxicity : no data available

Ingredients

Acute oral toxicity : Aliphatic hydrocarbons
 LD50 rat > 5,000 mg/kg

Ingredients

Acute dermal toxicity : Aliphatic hydrocarbons
 LD50 rabbit > 5,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : no data available
 Toxicity to daphnia and other aquatic invertebrates : no data available
 Toxicity to algae : no data available

Ingredients

Toxicity to fish : Aliphatic hydrocarbons
 96 h LC50 Fish: > 100 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

SAFETY DATA SHEET

BRILLIANT STAINLESS STEEL POLISH

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) : not determined

Switzerland. New notified substances and declared preparations : not determined

United States TSCA Inventory : On TSCA Inventory

Canadian Domestic Substances List (DSL) : All components of this product are on the Canadian DSL.

SAFETY DATA SHEET

BRILLIANT STAINLESS STEEL POLISH

Australia Inventory of Chemical Substances (AICS) : not determined

New Zealand. Inventory of Chemical Substances : On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory : not determined

Japan. ISHL - Inventory of Chemical Substances (METI) : not determined

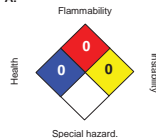
Korea. Korean Existing Chemicals Inventory (KECI) : not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) : not determined

China. Inventory of Existing Chemical Substances in China (IECSC) : not determined

SECTION 16. OTHER INFORMATION

NFPA:



HMS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Issuing date : 04/14/2014
 Version : 1.0
 Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**SAFETY DATA SHEET****BRITE PREMIUM LIQUID LAUNDRY DETERGENT****SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : BRITE PREMIUM LIQUID LAUNDRY DETERGENT
 Other means of identification : Not applicable
 Recommended use : Laundry detergent
 Restrictions on use : Reserved for industrial and professional use.
 Product dilution information : 0.052 %

Company : SSDC Division
 Kay Chemical Company
 4050 Corporate Dr., #100
 Grapevine, Texas USA 76051-2326
 1-800-532-7732 (Customer Service)

Emergency telephone : 1-800-391-1504
 Issuing date : 11/11/2014

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Product AS SOLD
 Eye irritation : Category 2B

Product AT USE DILUTION
 Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD
 Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**
 Wash skin thoroughly after handling.
Response:
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Product AT USE DILUTION
 Precautionary Statements : **Prevention:**
 Wash hands thoroughly after handling.
Response:
 Get medical advice/ attention if you feel unwell.
Storage:
 Store in accordance with local regulations.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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SAFETY DATA SHEET**BRITE PREMIUM LIQUID LAUNDRY DETERGENT****Product AS SOLD**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Sodium dodecylbenzene sulfonate	25155-30-0	5 - 10
Ethoxylated alkyl sulfate	68585-34-2	5 - 10
Sodium Xylenesulfonate	1300-72-7	1 - 5
alcohols, c10-14, ethoxylated	66455-15-0	1 - 5
Linear Alkylbenzenesulphonates	27323-41-7	1 - 5
Propylene glycol	57-55-6	1 - 5

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES**Product AS SOLD**

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.
 Protection of first-aiders : No special precautions are necessary for first aid responders.
 Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.

SECTION 5. FIRE-FIGHTING MEASURES**Product AS SOLD**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Not flammable or combustible.

Hazardous combustion products : Decomposition products may include the following materials:
 Carbon oxides
 Nitrogen oxides (NOx)

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SAFETY DATA SHEET**BRITE PREMIUM LIQUID LAUNDRY DETERGENT**

Sulfur oxides
 Oxides of phosphorus

Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD
 Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION
 Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD
 Advice on safe handling : Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

Product AT USE DILUTION
 Advice on safe handling : Wash hands after handling. For personal protection see section 8.
 Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD
 Ingredients with workplace control parameters

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SAFETY DATA SHEET**BRITE PREMIUM LIQUID LAUNDRY DETERGENT**

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m3	WEEL

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.
 Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Product AT USE DILUTION
 Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AS SOLD
 Appearance : liquid
 Color : clear, dark orange
 Odor : Floral
 pH : 7.5 - 9.5, 100 %
 Flash point : Not applicable
 Odor Threshold : No data available
 Melting point/freezing point : No data available
 Initial boiling point and boiling range : > 100 °C
 Evaporation rate : No data available
 Flammability (solid, gas) : No data available
 Upper explosion limit : No data available
 Lower explosion limit : No data available
 Vapor pressure : No data available

Product AT USE DILUTION
 liquid
 orange
 Floral
 6.9

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SAFETY DATA SHEET

BRITE PREMIUM LIQUID LAUNDRY DETERGENT

Relative vapor density : No data available
 Relative density : 1.03 - 1.05
 Water solubility : soluble
 Solubility in other solvents : No data available
 Partition coefficient: n-octanol/water : No data available
 Autoignition temperature : No data available
 Thermal decomposition : No data available
 Viscosity, kinematic : No data available
 Explosive properties : No data available
 Oxidizing properties : No data available
 Molecular weight : No data available
 VOC : No data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD
 Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
 Conditions to avoid : None known.
 Incompatible materials : Acids
 Hazardous decomposition products : Decomposition products may include the following materials:
 Carbon oxides
 Nitrogen oxides (NOx)
 Sulfur oxides
 Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD
 Eyes : Causes eye irritation.
 Skin : Health injuries are not known or expected under normal use.
 Ingestion : Health injuries are not known or expected under normal use.
 Inhalation : Health injuries are not known or expected under normal use.
 Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION
 Eyes : Health injuries are not known or expected under normal use.

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SAFETY DATA SHEET

BRITE PREMIUM LIQUID LAUNDRY DETERGENT

Skin : Health injuries are not known or expected under normal use.
 Ingestion : Health injuries are not known or expected under normal use.
 Inhalation : Health injuries are not known or expected under normal use.
 Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD
 Eye contact : Redness, Irritation
 Skin contact : No symptoms known or expected.
 Ingestion : No symptoms known or expected.
 Inhalation : No symptoms known or expected.

Product AT USE DILUTION
 Eye contact : No symptoms known or expected.
 Skin contact : No symptoms known or expected.
 Ingestion : No symptoms known or expected.
 Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD
 Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg
 Acute inhalation toxicity : No data available
 Acute dermal toxicity : No data available
 Skin corrosion/irritation : Mild skin irritation
 Serious eye damage/eye irritation : Mild eye irritation
 Method: OECD Test Guideline 437
 Test substance: Product
 Respiratory or skin sensitization : No data available
 Carcinogenicity : No data available
 Reproductive effects : No data available
 Germ cell mutagenicity : No data available
 Teratogenicity : No data available
 STOT-single exposure : No data available
 STOT-repeated exposure : No data available
 Aspiration toxicity : No data available

Ingredients

Acute inhalation toxicity : Propylene glycol
 4 h LC50 Rat: > 158.5 mg/l

Ingredients

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SAFETY DATA SHEET

BRITE PREMIUM LIQUID LAUNDRY DETERGENT

Acute dermal toxicity : Ethoxylated alkyl sulfate
 LD50 Rat: > 2,000 mg/kg
 alcohols, c10-14, ethoxylated
 LD50 Rat: > 2,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD
Ecotoxicity
 Environmental Effects : Harmful to aquatic life.

Product

Toxicity to fish : No data available
 Toxicity to daphnia and other aquatic invertebrates : No data available
 Toxicity to algae : No data available

Ingredients

Toxicity to fish : sodium dodecylbenzene sulfonate
 96 h LC50: 3.2 mg/l
 Ethoxylated alkyl sulfate
 96 h LC50 Fish: 28 mg/l
 alcohols, c10-14, ethoxylated
 96 h LC50 Fish: 1.125 mg/l
 Linear Alkylbenzenesulphonates
 96 h LC50: 2.5 mg/l
 Propylene glycol
 96 h LC50: > 10,000 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates : Propylene glycol
 48 h EC50: 18,340 mg/l

Ingredients

Toxicity to algae : Sodium Xylenesulfonate
 96 h EC50: 230 mg/l
 Propylene glycol
 96 h EC50: 19,000 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

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SAFETY DATA SHEET

BRITE PREMIUM LIQUID LAUNDRY DETERGENT

Other adverse effects
 No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD
 Disposal methods : The product should not be allowed to enter drains, water courses or the soil.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

Product AT USE DILUTION
 Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium dodecylbenzene sulfonate	25155-30-0	1000	13820

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

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SAFETY DATA SHEET

BRITE PREMIUM LIQUID LAUNDRY DETERGENT

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

Switzerland. New notified substances and declared preparations :
The mixture contains substances listed on the Swiss Inventory

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) :
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :
not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

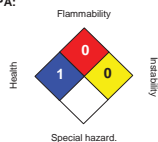
Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC) :
not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



HMS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

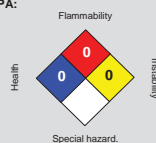
0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION

SAFETY DATA SHEET

BRITE PREMIUM LIQUID LAUNDRY DETERGENT

NFPA:



HMS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 11/11/2014
Version : 1.1
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

COOL BLUE POT & PAN DETERGENT



Section 1. Chemical product and company identification

Product name : COOL BLUE POT & PAN DETERGENT
Recommended use and restrictions : Manual Warewashing Detergent
 Use only for the purpose on the product label.

Product dilution information : Up to 2 oz/3 gal or 5.29 mL/L

Supplier's information : SSDC Division
 Kay Chemical Company
 4050 Corporate Dr., #100
 Grapevine, TX 76051
 1-800-532-7732 (Customer Service)
Code : 916228-02
Date of issue : 01 Jul 2013
 EMERGENCY HEALTH INFORMATION: 1-800-391-1504

Section 2. Hazards identification

	Product AS SOLD	Product AT USE DILUTION
GHS Classification	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B	Not classified.
GHS label elements		
Signal word	Warning	No signal word.
Hazard statements	Causes eye irritation.	No known significant effects or critical hazards.
Precautionary statements		
Prevention	Wash hands thoroughly after handling.	Wash thoroughly after handling.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.	Get medical attention if symptoms appear.
Storage	No other specific measures identified.	No other specific measures identified.
Disposal	See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards	None known.	None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number

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COOL BLUE POT & PAN DETERGENT

01 Jul 2013

Section 3. Composition/information on ingredients

SODIUM C14-16 OLEFIN SULFONATE	1 - 5	68439-57-6
SODIUM CHLORIDE	1 - 5	7647-14-5
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	1 - 5	68585-34-2
COCAMINE OXIDE	1 - 5	61788-90-7

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD	
Suitable fire extinguishing media	Use water spray, fog or foam.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
Specific fire-fighting methods	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	Use personal protective equipment as required.	Use personal protective equipment as required.
Environmental precautions	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

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COOL BLUE POT & PAN DETERGENT

01 Jul 2013

Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 0 and 50°C	Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eye protection	No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Hand protection	No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Skin protection	No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Respiratory protection	A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	Liquid.	Liquid.
Color	Blue [Dark]	Blue [Light]
Odor	Floral	Floral
pH	7.5 to 10 (100%)	6.5 to 8
Flash point	> 100°C	> 100°C
Explosion limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Melting point	: Not available.	
Boiling point	: >100°C (>212°F)	
Evaporation rate (butyl acetate = 1)	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 1.028 to 1.048 (Water = 1)	
Solubility	: Easily soluble in the following materials: cold water and hot water.	

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COOL BLUE POT & PAN DETERGENT

01 Jul 2013

Section 9. Physical and chemical properties

Partition coefficient : Not available.
n-octanol/water
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Odor threshold : Not available.
Viscosity : Not available.

Section 10. Stability and reactivity

Product AS SOLD
Stability : The product is stable.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid : No specific data.
Materials to avoid : Not available.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

	Product AS SOLD	Product AT USE DILUTION
Route of exposure	Skin contact, Eye contact, Inhalation, Ingestion	
Symptoms		
Eye contact	Adverse symptoms may include the following: irritation watering redness	No specific data.
Skin contact	: No specific data.	No specific data.
Inhalation	: No specific data.	No specific data.
Ingestion	: No specific data.	No specific data.
Acute toxicity		
Eye contact	: Causes eye irritation.	No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

Toxicity data

Product/ingredient name	LD50 Dermal	Rabbit	LD50 Oral	Rat	LD50 Inhalation	Rat
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts				6300 mg/kg		
sodium chloride				3983 mg/kg		
				>10.5 mg/l		
				>10000 mg/kg		
				3000 mg/kg		
				>2000 mg/kg		
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts						

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Section 11. Toxicological information

amines, coco alkyldimethyl, n-oxides	LD50 Oral	Rat	>2500 mg/kg
	LD50 Dermal	Rat	>2174 mg/kg
	LD50 Oral	Rat	846 mg/kg

Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information**Product AS SOLD**

Ecotoxicity : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	Acute LC50 4.2 mg/l	Fish	96 hours
sodium chloride	Acute LC50 5840 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	Acute LC50 28 mg/l	Fish	96 hours
amines, coco alkyldimethyl, n-oxides	Acute LC50 <1 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	Product AS SOLD	Product AT USE DILUTION
	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification : Not regulated.

IMO/MDG

IMO/MDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information**Product AS SOLD****U.S. Federal regulations**

TSCA 8(b) inventory : All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No listed substance
SARA 302/304 emergency planning and notification: No listed substance
SARA 313 : **Product name** : **CAS number** : **Concentration**
Form R - Reporting requirements : No listed substance
California Prop. 65 : No listed substance

Section 16. Other information**Product AS SOLD**

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.)

Health	1	0	0	0
			Flammability	
			Instability/Reactivity	
			Special	

Date of issue : 01 Jul 2013

Prepared by : Regulatory Affairs
1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0

Health	0	0	0	0
			Flammability	
			Instability/Reactivity	
			Special	

**SAFETY DATA SHEET****DELUGE SOAK TANK CONCENTRATE****SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DELUGE SOAK TANK CONCENTRATE
 Other means of identification : not applicable
 Recommended use : Cleaning product
 Restrictions on use : Reserved for industrial and professional use.
 Product dilution information : 0.0 % - 10.0 %

Company : SSDC Division
 Kay Chemical Company
 4050 Corporate Dr., #100
 Grapevine, Texas USA 76051-2326
 1-800-532-7732 (Customer Service)
 Emergency telephone : 1-800-391-1504
 Issuing date : 04/02/2014

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Product AS SOLD
 Eye irritation : Category 2B

Product AT USE DILUTION
 Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD
 Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**
 Wash skin thoroughly after handling.
Response:
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Product AT USE DILUTION
 Precautionary Statements : **Prevention:**
 Wash hands thoroughly after handling.
Response:
 Get medical advice/ attention if you feel unwell.
Storage:
 Store in accordance with local regulations.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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SAFETY DATA SHEET**DELUGE SOAK TANK CONCENTRATE**

Product AS SOLD
 Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Arylsulfonates	1300-72-7	5 - 10
Sodium Carbonate(soda)	497-19-8	5 - 10
ethylenediamine tetraacetate	64-02-8	5 - 10
alcohols, c10-14, ethoxylated	66455-15-0	1 - 5

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES**Product AS SOLD**

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.
 Protection of first-aiders : No special precautions are necessary for first aid responders.
 Notes to physician : Treat symptomatically.

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)**SECTION 5. FIRE-FIGHTING MEASURES****Product AS SOLD**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Unsuitable extinguishing media : None known.
 Specific hazards during fire fighting : Not flammable or combustible.
 Hazardous combustion products : Carbon oxides
 Special protective equipment for fire-fighters : Use personal protective equipment.
 Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire

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SAFETY DATA SHEET**DELUGE SOAK TANK CONCENTRATE**

and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Product AS SOLD**

Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE**Product AS SOLD**

Advice on safe handling : Avoid contact with skin and eyes. Wash hands thoroughly after handling. Use only with adequate ventilation.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling : For personal protection see section 8. Wash hands after handling.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Product AS SOLD****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

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SAFETY DATA SHEET**DELUGE SOAK TANK CONCENTRATE****Personal protective equipment**

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.
 Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, light orange	light orange
Odor	: slight	slight
pH	: 11.4 - 12.4, 100 %	11.2
Flash point	: not applicable, Does not sustain combustion.	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: no data available	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapor pressure	: no data available	
Relative vapor density	: no data available	
Relative density	: 1.123 - 1.143	
Water solubility	: soluble	
Solubility in other solvents	: no data available	

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SAFETY DATA SHEET

DELUGE SOAK TANK CONCENTRATE

Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: no data available
VOC	: no data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD	
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Acids Metals
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes	: Causes eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

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SAFETY DATA SHEET

DELUGE SOAK TANK CONCENTRATE

Experience with human exposure

Product AS SOLD

Eye contact	: Redness, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity	: Acute toxicity estimate > 5,000 mg/kg
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: no data available
Carcinogenicity	: no data available
Reproductive effects	: no data available
Germ cell mutagenicity	: no data available
Teratogenicity	: no data available
STOT-single exposure	: no data available
STOT-repeated exposure	: no data available
Aspiration toxicity	: no data available

Ingredients

Acute dermal toxicity	: alcohols, c10-14, ethoxylated LD50 rat: > 2,000 mg/kg
-----------------------	------------------------------------------------------------

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

Environmental Effects	: This product has no known ecotoxicological effects.
-----------------------	-------------------------------------------------------

Product

Toxicity to fish	: no data available
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SAFETY DATA SHEET

DELUGE SOAK TANK CONCENTRATE

Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available

Ingredients

Toxicity to fish	: ethylenediamine tetraacetate 96 h LC50 Fish: 121 mg/l
	: alcohols, c10-14, ethoxylated 96 h LC50 Fish: 1,125 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates	: Sodium Carbonate(soda) 48 h EC50 Daphnia : 200 mg/l
-----------------------------------------------------	----------------------------------------------------------

Ingredients

Toxicity to algae	: Arylsulfonates 96 h EC50: 230 mg/l
-------------------	-----------------------------------------

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

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SAFETY DATA SHEET

DELUGE SOAK TANK CONCENTRATE

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) : not determined

Switzerland. New notified substances and declared preparations : not determined

United States TSCA Inventory : On TSCA Inventory

Canadian Domestic Substances List (DSL) : This product contains one or several components listed in the Canadian NDLS.

Australia Inventory of Chemical Substances (AICS) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances : On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :

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SAFETY DATA SHEET

DELUGE SOAK TANK CONCENTRATE

not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

Korea. Korean Existing Chemicals Inventory (KECI) :
On the inventory, or in compliance with the inventory

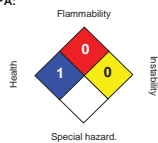
Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



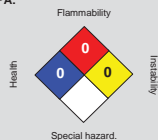
HMS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION

NFPA:



HMS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 04/02/2014
Version : 1.0
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material

SAFETY DATA SHEET

DELUGE SOAK TANK CONCENTRATE

designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



SAFETY DATA SHEET
EXCELLENT NEUTRAL FLOOR CLEANER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : EXCELLENT NEUTRAL FLOOR CLEANER
 Other means of identification : Not applicable
 Recommended use : Floor Cleaner
 Restrictions on use : Reserved for industrial and professional use.
 Product dilution information : 0.0 % - 0.3 %
 Company : SSDC Division
 Kay Chemical Company
 4050 Corporate Dr., #100
 Grapevine, Texas USA 76051-2326
 1-800-532-7732 (Customer Service)

Emergency telephone : 1-800-391-1504
 Issuing date : 08/22/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD
 Eye irritation : Category 2B

Product AT USE DILUTION
 Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD
 Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**
 Wash skin thoroughly after handling.
Response:
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Product AT USE DILUTION
 Precautionary Statements : **Prevention:**
 Wash hands thoroughly after handling.
Response:
 Get medical advice/ attention if you feel unwell.
Storage:
 Store in accordance with local regulations.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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SAFETY DATA SHEET

EXCELLENT NEUTRAL FLOOR CLEANER

Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
alcohol ethoxylate	68551-12-2	10 - 30
ethylenediamine tetraacetate	64-02-8	1 - 5
Fragrance	Proprietary Ingredient	0.1 - 1

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.
 Protection of first-aiders : No special precautions are necessary for first aid responders.
 Notes to physician : Treat symptomatically.

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Not flammable or combustible.

Hazardous combustion products : Decomposition products may include the following materials:
 Carbon oxides
 Nitrogen oxides (NOx)
 Sulfur oxides
 Oxides of phosphorus

Special protective equipment for fire-fighters : Use personal protective equipment.

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SAFETY DATA SHEET

EXCELLENT NEUTRAL FLOOR CLEANER

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling : Wash hands thoroughly after handling.
 Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
 Storage temperature : 0 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. For personal protection see section 8.
 Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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SAFETY DATA SHEET

EXCELLENT NEUTRAL FLOOR CLEANER

Personal protective equipment

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.
 Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, red	colorless
Odor	: Floral	Floral
pH	: 7.7 - 9.7, 100 %	6.8
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.005 - 1.035	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	

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SAFETY DATA SHEET

EXCELLENT NEUTRAL FLOOR CLEANER

Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD	
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD	
Eyes	: Causes eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

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SAFETY DATA SHEET

EXCELLENT NEUTRAL FLOOR CLEANER

Product AS SOLD	
Eye contact	: Redness, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity

Product AS SOLD	
Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Skin corrosion/irritation	: Mild skin irritation
Serious eye damage/eye irritation	: Mild eye irritation Method: OECD Test Guideline 437 Test substance: Product
Respiratory or skin sensitization	: No data available
Carcinogenicity	: No data available
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available
Teratogenicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration toxicity	: No data available

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity	
Environmental Effects	: Harmful to aquatic life.

Product

Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available

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SAFETY DATA SHEET

EXCELLENT NEUTRAL FLOOR CLEANER

Ingredients

Toxicity to fish	: alcohol ethoxylate 96 h LC50 Fish: 1.5 mg/l ethylenediamine tetraacetate 96 h LC50 Fish: 121 mg/l
------------------	------------------------------------------------------------------------------------------------------------------

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

Product AT USE DILUTION

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SAFETY DATA SHEET

EXCELLENT NEUTRAL FLOOR CLEANER

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) :
not determined

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) :
not determined

New Zealand. Inventory of Chemical Substances :
not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

China. Inventory of Existing Chemical Substances in China (IECS) :

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SAFETY DATA SHEET

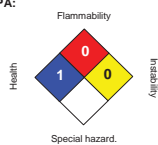
EXCELLENT NEUTRAL FLOOR CLEANER

not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



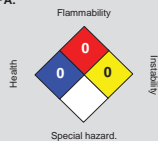
HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 08/22/2014
Version : 1.1
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

INSIDE OUT KITCHEN EQUIPMENT CLEANER



Section 1. Chemical product and company identification

Product name : INSIDE OUT KITCHEN EQUIPMENT CLEANER
Recommended use and restrictions : Cleaning product
Use only for the purpose on the product label.

Product dilution information : Not applicable

Supplier's information : SSDC Division
Kay Chemical Company
4050 Corporate Dr., #100
Grapevine, TX 76051
1-800-532-7732 (Customer Service)
Code : 912258-03
Date of issue : 21 Nov 2013
EMERGENCY HEALTH INFORMATION: 1-800-391-1504

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

Product AT USE DILUTION
Product is sold ready to use.

GHS label elements

Signal word : Warning

Hazard statements : Causes eye irritation.

Precautionary statements

Prevention : Wash hands thoroughly after handling.
Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
POTASSIUM HYDROXIDE	<1	1310-58-3
dipropylene glycol methyl ether	1 - 5	34590-94-8
SODIUM XYLENE SULFONATE	1 - 5	1300-72-7
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-, omega.-hydroxy-	1 - 5	34398-01-1
Limonene	<1.0	5989-27-5

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INSIDE OUT KITCHEN EQUIPMENT CLEANER

21 Nov 2013

Section 3. Composition/information on ingredients

Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	Product is sold ready to use.
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.	
Inhalation	: No special measures required. Treat symptomatically.	
Ingestion	: Get medical attention if symptoms occur.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides
Specific fire-fighting methods	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Use personal protective equipment as required.	Product is sold ready to use.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	
Methods for cleaning up	: Use a water rinse for final clean-up.	

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INSIDE OUT KITCHEN EQUIPMENT CLEANER

21 Nov 2013

Section 7. Handling and storage

Handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage : Keep out of reach of children. Keep container tightly closed.
Store between the following temperatures: 0 and 50°C

Product AT USE DILUTION
Product is sold ready to use.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
dipropylene glycol methyl ether	ACGIH TLV (United States, 3/2012). Absorbed through skin. STEL: 909 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 606 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. OSHA PEL (United States, 6/2010). Absorbed through skin. TWA: 600 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. NIOSH REL (United States, 6/2009). Absorbed through skin. TWA: 100 ppm 10 hours. TWA: 600 mg/m ³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 900 mg/m ³ 15 minutes.
POTASSIUM HYDROXIDE	ACGIH TLV (United States, 3/2012). C: 2 mg/m ³ NIOSH REL (United States, 6/2009). TWA: 2 mg/m ³ 10 hours.
Limonene	AIHA WEEL (United States, 5/2010). TWA: 30 ppm 8 hours.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

Eye protection : No protective equipment is needed under normal use conditions.

Hand protection : No protective equipment is needed under normal use conditions.

Skin protection : No protective equipment is needed under normal use conditions.

Respiratory protection : A respirator is not needed under normal and intended conditions of product use.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Product AT USE DILUTION
Product is sold ready to use.

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INSIDE OUT KITCHEN EQUIPMENT CLEANER

21 Nov 2013

Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Product is sold ready to use.
Color	: Violet [Dark]	
Odor	: citrus	
pH	: 12 to 14 (100%)	
Flash point	: > 100°C Product does not support combustion.	
Explosion limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Melting point	: Not available.	
Boiling point	: Not available.	
Evaporation rate (butyl acetate = 1)	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density (Water = 1)	: 1.014 to 1.034 (Water = 1)	
Solubility	: Easily soluble in the following materials: cold water and hot water.	
Partition coefficient: n-octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Odor threshold	: Not available.	
Viscosity	: Kinematic (room temperature): 0 cm ² /s (0 cSt)	

Section 10. Stability and reactivity

Product AS SOLD

Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Materials to avoid	: Highly reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

	Product AS SOLD	Product AT USE DILUTION
Route of exposure	: Skin contact, Eye contact, Inhalation, Ingestion	Product is sold ready to use.
Symptoms		
Eye contact	: Adverse symptoms may include the following: irritation watering redness	
Skin contact	: No specific data.	
Inhalation	: No specific data.	
Ingestion	: No specific data.	

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Section 11. Toxicological information**Acute toxicity**

Eye contact : Causes eye irritation.
Skin contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Toxicity data

Product/ingredient name	LD50 Dermal	Rabbit	LD50 Oral	Rat
dipropylene glycol methyl ether		9510 mg/kg		5135 mg/kg
Benzenesulfonic acid, dimethyl-, sodium salt (1:1)		>6.2 mg/l		>6.2 mg/l
	Dusts and mists			
	LD50 Dermal	Rabbit	LD50 Oral	Rat
		>2000 mg/kg		>7000 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	LD50 Dermal	Rabbit	LD50 Dermal	Rabbit
		>2000 mg/kg		>2000 mg/kg
(r)-p-mentha-1,8-diene	LD50 Oral	Rat	LD50 Dermal	Rabbit
		1700 mg/kg		>5000 mg/kg
	LD50 Oral	Rat	LD50 Oral	Rat
		4400 mg/kg		4400 mg/kg

Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information**Product AS SOLD**

Ecotoxicity : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
dipropylene glycol methyl ether	Acute LC50 >1000 mg/l	Fish	96 hours
Benzenesulfonic acid, dimethyl-, sodium salt (1:1)	Acute EC50 230 mg/l	Aquatic plants	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-potassium hydroxide	Acute LC50 3.2 mg/l	Fish	96 hours
	Acute LC50 80 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations**Product AS SOLD**

Disposal methods : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

RCRA classification : Unused product is D002 (Corrosive)

Product AT USE DILUTION

Product is sold ready to use.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information**Product AS SOLD****U.S. Federal regulations**

TSCA 8(b) Inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313

Product name	CAS number	Concentration
Form R - Reporting requirements		No listed substance

California Prop. 65 : No listed substance

Section 16. Other information**Product AS SOLD**

Hazardous Material Information System (U.S.A.) :

Health	1
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.) :

Health	1	0	0
Flammability	0	0	0
Instability/Reactivity	0	0	0
Special			

Date of issue : 21 Nov 2013
Prepared by : Regulatory Affairs
 1-800-352-5326

Notice to reader**Section 16. Other information**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : QSR HEATED SOAK TANK CONCENTRATE
 Other means of identification : not applicable
 Recommended use : Cleaning product
 Restrictions on use : Reserved for industrial and professional use.
 Product dilution information : 7.5 %

Company : Kay Chemical Company
 8300 Capital Drive
 Greensboro, North Carolina USA 27409
 1-800-529-5458

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)
 Issuing date : 05/29/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Eye irritation : Category 2B

Product AT USE DILUTION

Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**
 Wash skin thoroughly after handling.
Response:
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Product AT USE DILUTION

Precautionary Statements : **Prevention:**
 Wash hands thoroughly after handling.
Response:
 Get medical advice/ attention if you feel unwell.
Storage:
 Store in accordance with local regulations.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

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SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Inorganic silicate.	1312-76-1	1 - 5
ethylenediamine tetraacetate amines, coco alkyldimethyl, n-oxides	64-02-8 61788-90-7	1 - 5 1 - 5

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.
 Protection of first-aiders : No special precautions are necessary for first aid responders.
 Notes to physician : Treat symptomatically.

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Unsuitable extinguishing media : None known.
 Specific hazards during fire fighting : Not flammable or combustible.
 Hazardous combustion products : Carbon oxides
 Special protective equipment for fire-fighters : Use personal protective equipment.
 Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

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SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling : Avoid contact with skin and eyes. Wash hands thoroughly after handling. Use only with adequate ventilation.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling : For personal protection see section 8. Wash hands after handling.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, colorless	colorless
Odor	: amine-like	amine-like
pH	: 11.3, 100 %	10.8
Flash point	: not applicable, Does not sustain combustion.	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: 100 °C	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapor pressure	: no data available	
Relative vapor density	: no data available	
Relative density	: 1.029 - 1.129	
Water solubility	: soluble	
Solubility in other solvents	: no data available	
Partition coefficient: n-	: no data available	

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SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

octanol/water

Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: no data available
VOC	: no data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Acids
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes	: Causes eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

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SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

Product AS SOLD

Eye contact	: Redness, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity	: Acute toxicity estimate > 5,000 mg/kg
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: Mild eye irritation
Respiratory or skin sensitization	: no data available
Carcinogenicity	: no data available
Reproductive effects	: no data available
Germ cell mutagenicity	: no data available
Teratogenicity	: no data available
STOT-single exposure	: no data available
STOT-repeated exposure	: no data available
Aspiration toxicity	: no data available

Ingredients

Acute dermal toxicity	: amines, coco alkyldimethyl, n-oxides LD50 rat: > 2,174 mg/kg
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SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity	
Environmental Effects	: Toxic to aquatic life.

Product

Toxicity to fish	: no data available
Toxicity to daphnia and other	: no data available

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SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

aquatic invertebrates

Toxicity to algae	: no data available
-------------------	---------------------

Ingredients

Toxicity to fish	: Inorganic silicate. 96 h LC50 Fish: 210 mg/l
	ethylenediamine tetraacetate 96 h LC50 Fish: 121 mg/l
	amines, coco alkyldimethyl, n-oxides 96 h LC50 Fish: 1 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

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SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

Sea transport (IMDG/IMO)

Not dangerous goods

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) : not determined

Switzerland. New notified substances and declared preparations :

On the inventory, or in compliance with the inventory

United States TSCA Inventory :

On TSCA Inventory

Canadian Domestic Substances List (DSL) :

This product contains one or several components listed in the Canadian NDSL.

Australia Inventory of Chemical Substances (AICS) :

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory : not determined

Japan. ISHL - Inventory of Chemical Substances (METI) : not determined

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SAFETY DATA SHEET

QSR HEATED SOAK TANK CONCENTRATE

Korea. Korean Existing Chemicals Inventory (KECI) :
On the inventory, or in compliance with the inventory

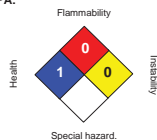
Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



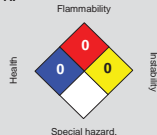
HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 05/29/2014
Version : 1.0
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



SAFETY DATA SHEET
MULTISHEEN RTU GLASS CLEANER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MULTISHEEN RTU GLASS CLEANER
 Other means of identification : not applicable
 Recommended use : Glass Cleaner
 Restrictions on use : Reserved for industrial and professional use.
 Product dilution information : Product is sold ready to use.
 Company : SSDC Division
 Kay Chemical Company
 4050 Corporate Dr., #100
 Grapevine, Texas USA 76051-2326
 1-800-532-7732 (Customer Service)
 Emergency telephone : 1-800-391-1504
 Issuing date : 03/27/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Precautionary Statements : **Prevention:**
 Wash hands thoroughly after handling.
Response:
 Get medical advice/ attention if you feel unwell.
Storage:
 Store in accordance with local regulations.
 Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.
 Protection of first-aiders : No special precautions are necessary for first aid responders.
 Notes to physician : No specific measures identified.

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SAFETY DATA SHEET

MULTISHEEN RTU GLASS CLEANER

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Unsuitable extinguishing media : None known.
 Specific hazards during fire fighting : Not flammable or combustible.
 Hazardous combustion products : Carbon oxides
 Special protective equipment for fire-fighters : Use personal protective equipment.
 Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
 Environmental precautions : No special environmental precautions required.
 Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8. Wash hands after handling.
 Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
 Storage temperature : 0 °C to 50 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

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SAFETY DATA SHEET

MULTISHEEN RTU GLASS CLEANER

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.
 Hygiene measures : Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
 Color : clear, blue
 Odor : Perfumes, fragrances
 pH : 9.5 - 10.8, 100 %
 Flash point : not applicable, Does not sustain combustion.
 Odor Threshold : no data available
 Melting point/freezing point : no data available
 Initial boiling point and boiling range : 100 °C
 Evaporation rate : no data available
 Flammability (solid, gas) : no data available
 Upper explosion limit : no data available
 Lower explosion limit : no data available
 Vapor pressure : no data available
 Relative vapor density : no data available
 Relative density : 0.999 - 1.003
 Water solubility : soluble
 Solubility in other solvents : no data available
 Partition coefficient: n-octanol/water : no data available
 Autoignition temperature : no data available
 Thermal decomposition : no data available
 Viscosity, kinematic : no data available
 Explosive properties : no data available
 Oxidizing properties : The substance or mixture is not classified as oxidizing.
 Molecular weight : no data available
 VOC : no data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

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SAFETY DATA SHEET

MULTISHEEN RTU GLASS CLEANER

Conditions to avoid : None known.
 Incompatible materials : None known.
 Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Health injuries are not known or expected under normal use.
 Skin : Health injuries are not known or expected under normal use.
 Ingestion : Health injuries are not known or expected under normal use.
 Inhalation : Health injuries are not known or expected under normal use.
 Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : No symptoms known or expected.
 Skin contact : No symptoms known or expected.
 Ingestion : No symptoms known or expected.
 Inhalation : No symptoms known or expected.

Toxicity

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
 Acute inhalation toxicity : no data available
 Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
 Skin corrosion/irritation : no data available
 Serious eye damage/eye irritation : no data available
 Respiratory or skin sensitization : no data available
 Carcinogenicity : no data available
 Reproductive effects : no data available
 Germ cell mutagenicity : no data available
 Teratogenicity : no data available
 STOT-single exposure : no data available
 STOT-repeated exposure : no data available
 Aspiration toxicity : no data available

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SAFETY DATA SHEET

MULTISHEEN RTU GLASS CLEANER

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : no data available
 Toxicity to daphnia and other aquatic invertebrates : no data available
 Toxicity to algae : no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SAFETY DATA SHEET

MULTISHEEN RTU GLASS CLEANER

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) : not determined

Switzerland. New notified substances and declared preparations : The mixture contains substances listed on the Swiss Inventory not determined

United States TSCA Inventory : On TSCA Inventory

Canadian Domestic Substances List (DSL) : All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) : not determined

New Zealand. Inventory of Chemical Substances : On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory : not determined

Japan. ISHL - Inventory of Chemical Substances (METI) : not determined

Korea. Korean Existing Chemicals Inventory (KECI) : not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) : not determined

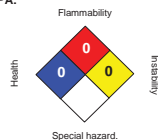
China. Inventory of Existing Chemical Substances in China (IECSC) : not determined

SECTION 16. OTHER INFORMATION

SAFETY DATA SHEET

MULTISHEEN RTU GLASS CLEANER

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Issuing date : 03/27/2014
 Version : 1.0
 Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SANI QUAD FOOD SERVICE SANITIZER
 Other means of identification : not applicable
 Recommended use : Sanitizer - Food contact surface
 Restrictions on use : Reserved for industrial and professional use.
 Product dilution information : 0.61 %
 Company : Ecolab Inc.
 370 N. Wabasha Street
 St. Paul, Minnesota USA 55102
 1-800-352-5326
 Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)
 Issuing date : 07/14/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD
 Acute toxicity (Oral) : Category 4
 Acute toxicity (Dermal) : Category 4
 Skin corrosion : Category 1A
 Serious eye damage : Category 1

Product AT USE DILUTION
 Eye irritation : Category 2B

GHS Label element

Product AS SOLD
 Hazard pictograms : 

Signal Word : Danger
 Hazard Statements : Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage.
 Precautionary Statements : **Prevention:** Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.
Storage:
 Store locked up.
Disposal:
 Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION

Signal Word : Warning
 Hazard Statements : Causes eye irritation.
 Precautionary Statements : **Prevention:** Wash skin thoroughly after handling.
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride	68424-85-1	3
Octyl decyl dimethyl ammonium chloride	32426-11-2	2.25
Dioctyl dimethyl ammonium chloride	5538-94-3	0.9
Didecyl Dimethyl Ammonium Chloride	7173-51-5	1.35

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
 In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
 If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
 If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
 Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.
 In case of skin contact : Rinse with plenty of water.
 If swallowed : Rinse mouth. Get medical attention if symptoms occur.
 If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Unsuitable extinguishing media : None known.
 Specific hazards during fire fighting : Not flammable or combustible.
 Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides, nitrogen oxides (NOx), Sulfur oxides, Oxides of phosphorus
 Special protective equipment for fire-fighters : Use personal protective equipment.
 Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
 Environmental precautions : Do not allow contact with soil, surface or ground water.
 Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, : Refer to protective measures listed in sections 7 and 8.

protective equipment and emergency procedures

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fumes/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.
 Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
 Storage temperature : 0 °C to 40 °C

Product AT USE DILUTION

Advice on safe handling : Wash hands thoroughly after handling.
 Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles, Face-shield
 Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
 Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
 Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
 Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes

SAFETY DATA SHEET

SANI QUAD FOOD SERVICE SANITIZER

and body in case of contact or splash hazard.

Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : No special protective equipment required.
 Hand protection : No special protective equipment required.
 Skin protection : No special protective equipment required.
 Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	: liquid
Color	: clear, red	: light red
Odor	: sweet	: sweet
pH	: 6.0 - 9.0, 100 %	: 9.0
Flash point	: not applicable, Does not sustain combustion.	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: no data available	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapor pressure	: no data available	
Relative vapor density	: no data available	
Relative density	: 0.987	
Water solubility	: no data available	
Solubility in other solvents	: no data available	
Partition coefficient: n-octanol/water	: no data available	
Autoignition temperature	: no data available	
Thermal decomposition	: no data available	
Viscosity, kinematic	: no data available	
Explosive properties	: no data available	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Molecular weight	: no data available	
VOC	: no data available	

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SAFETY DATA SHEET

SANI QUAD FOOD SERVICE SANITIZER

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : Acids
Bases

Hazardous decomposition products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes : Causes eye irritation.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

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SAFETY DATA SHEET

SANI QUAD FOOD SERVICE SANITIZER

Product AT USE DILUTION

Eye contact : Redness, Irritation

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity : Acute toxicity estimate 500 mg/kg

Acute inhalation toxicity : no data available

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg

Skin corrosion/irritation : Causes severe burns.

Serious eye damage/eye irritation : Irreversible effects on the eye

Respiratory or skin sensitization : no data available

Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT-single exposure : no data available

STOT-repeated exposure : no data available

Aspiration toxicity : no data available

Ingredients

Acute inhalation toxicity : Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride
4 h LC50 rat: > 0.054 mg/l

Octyl decyl dimethyl ammonium chloride
4 h LC50 rat: 0.07 mg/l

Diocetyl dimethyl ammonium chloride
4 h LC50 rat: 0.07 mg/l

Didecyl Dimethyl Ammonium Chloride
4 h LC50 rat: 0.07 mg/l

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SAFETY DATA SHEET

SANI QUAD FOOD SERVICE SANITIZER

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Ingredients

Toxicity to fish : Octyl decyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

Didecyl Dimethyl Ammonium Chloride
96 h LC50 Fish: 1 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates : Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride
48 h EC50: 0.0059 mg/l

Diocetyl dimethyl ammonium chloride
48 h EC50 Daphnia : 0.1 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Product AT USE DILUTION

Disposal methods : The product should not be allowed to enter drains, water courses or

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SAFETY DATA SHEET

SANI QUAD FOOD SERVICE SANITIZER

the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)
Not dangerous goods

Sea transport (IMDG/IMO)
Not dangerous goods

Product AT USE DILUTION
Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number : 6836-70-1677

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) :
not determined

SAFETY DATA SHEET

SANI QUAD FOOD SERVICE SANITIZER

Switzerland. New notified substances and declared preparations :
The mixture contains substances listed on the Swiss Inventory On the inventory, or in compliance with the inventory

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) :
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :
On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

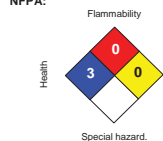
Korea. Korean Existing Chemicals Inventory (KECI) :
On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

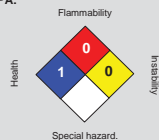
0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION

SAFETY DATA SHEET

SANI QUAD FOOD SERVICE SANITIZER

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 07/14/2014
Version : 1.0
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

SUPER RAVE DISHWASHING DETERGENT



Section 1. Chemical product and company identification

Product name : SUPER RAVE DISHWASHING DETERGENT
Recommended use and restrictions : Manual Warewashing Detergent
Use only for the purpose on the product label.

Product dilution information : 0.2%

Supplier's information : SSDC Division
Kay Chemical Company
4050 Corporate Dr., #100
Grapevine, TX, 76051
1-800-532-7732 (Customer Service)

Code : 915484-01

Date of issue : 16 Sep 2013

EMERGENCY HEALTH INFORMATION: 1-800-391-1504

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

GHS label elements

Signal word : Warning

Hazard statements : Causes eye irritation.

Precautionary statements

Prevention : Wash hands thoroughly after handling.
Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Product AT USE DILUTION
Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.
Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
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SUPER RAVE DISHWASHING DETERGENT

16 Sep 2013

Section 3. Composition/information on ingredients

Ingredient	Concentration Range (%)	CAS number
SODIUM C14-16 OLEFIN SULFONATE	5 - 20	68439-57-6
COCAMINE OXIDE	1 - 5	61788-90-7
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts	1 - 5	68585-34-2
SODIUM XYLENE SULFONATE	1 - 5	1300-72-7
ALCOHOL	1 - 5	64-17-5

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

Product AS SOLD

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin contact : No known effect after skin contact. Rinse with water for a few minutes.

Inhalation : No special measures required. Treat symptomatically.

Ingestion : Get medical attention if symptoms occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media : Use water spray, fog or foam.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

Specific fire-fighting methods : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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SUPER RAVE DISHWASHING DETERGENT

16 Sep 2013

Section 6. Accidental release measures

Personal precautions : Use personal protective equipment as required.

Environmental precautions : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Methods for cleaning up : Use a water rinse for final clean-up.

Product AS SOLD
Use personal protective equipment as required.

Product AT USE DILUTION
Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Use a water rinse for final clean-up.

Section 7. Handling and storage

Handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage : Keep out of reach of children. Keep container tightly closed.
Store between the following temperatures: 5 and 50°C

Product AS SOLD
Wash thoroughly after handling.

Product AT USE DILUTION
Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
ALCOHOL	ACGIH TLV (United States, 3/2012). STEL: 1000 ppm 15 minutes. OSHA PEL (United States, 6/2010). TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours.

Appropriate engineering controls : **Product AS SOLD**
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

Eye protection : No protective equipment is needed under normal use conditions.

Hand protection : No protective equipment is needed under normal use conditions.

Skin protection : No protective equipment is needed under normal use conditions.

Respiratory protection : A respirator is not needed under normal and intended conditions of product use.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Product AT USE DILUTION
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

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SUPER RAVE DISHWASHING DETERGENT

16 Sep 2013

Section 9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid.

Color : Blue

Odor : Floral

pH : 6 to 9 (100%)

Flash point : > 100°C

Explosion limits : Not available.

Flammability (solid, gas) : Not available.

Melting point : Not available.

Boiling point : >100°C (>212°F)

Evaporation rate (butyl acetate = 1) : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1.018 to 1.038 (Water = 1)

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Odor threshold : Not available.

Viscosity : Not available.

Stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Materials to avoid : Not available.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Symptoms : Adverse symptoms may include the following:
irritation
watering
redness

Skin contact : No specific data.

Inhalation : No specific data.

Ingestion : No specific data.

Acute toxicity : No specific data.

Product AS SOLD

Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

No specific data.

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Section 11. Toxicological information

Eye contact	: Causes eye irritation.	No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

Toxicity data

Product/ingredient name	LD50 Dermal	Rabbit	6300 mg/kg
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	LD50 Oral	Rat	3983 mg/kg
amines, coco alkyldimethyl, n-oxides	LD50 Dermal	Rat	>2174 mg/kg
	LD50 Oral	Rat	846 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts	LD50 Dermal	Rat	>2000 mg/kg
Benzenesulfonic acid, dimethyl-, sodium salt (1:1)	LD50 Oral	Rat	>2500 mg/kg
	LC50 Inhalation	Rat	>6.2 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>7000 mg/kg
ethanol	LC50 Inhalation	Rat	117 mg/l
	Vapor		
	LD50 Dermal	Rabbit	15800 mg/kg
	LD50 Oral	Rat	10470 mg/kg

Chronic toxicity

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	Acute LC50 4.2 mg/l	Fish	96 hours
amines, coco alkyldimethyl, n-oxides	Acute LC50 <1 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-omega-hydroxy-, c10-16-alkyl ethers, sodium salts	Acute LC50 28 mg/l	Fish	96 hours
Benzenesulfonic acid, dimethyl-, sodium salt (1:1)	Acute EC50 230 mg/l	Aquatic plants	96 hours
ethanol	Acute LC50 11000 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	Product AS SOLD : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.	Product AT USE DILUTION Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
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Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) Inventory	: All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances:	No listed substance
SARA 302/304 emergency planning and notification:	No listed substance
SARA 313	Product name CAS number Concentration
Form R - Reporting requirements	: No listed substance
California Prop. 65	: No listed substance

Section 16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.)



Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0



Section 16. Other information

Date of issue	: 16 Sep 2013
Prepared by	: Regulatory Affairs 1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**SAFETY DATA SHEET****SUPER SAN FOOD SERVICE SANITIZER****SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SUPER SAN FOOD SERVICE SANITIZER
 Other means of identification : not applicable
 Recommended use : Sanitizer - Food contact surface
 Restrictions on use : Reserved for industrial and professional use.
 Product dilution information : 0.195 %
 Company : Ecolab Inc.
 370 N. Wabasha Street
 St. Paul, Minnesota USA 55102
 1-800-352-5326
 Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)
 Issuing date : 06/11/2014

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification****Product AS SOLD**

Acute toxicity (Oral) : Category 4
 Acute toxicity (Inhalation) : Category 4
 Acute toxicity (Dermal) : Category 4
 Skin corrosion : Category 1B
 Serious eye damage : Category 1

Product AT USE DILUTION

Eye irritation : Category 2B

GHS Label element**Product AS SOLD**

Hazard pictograms :



Signal Word : Danger
 Hazard Statements : Harmful if swallowed, in contact with skin or if inhaled.
 Causes severe skin burns and eye damage.
 Precautionary Statements : **Prevention:**
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim

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SAFETY DATA SHEET**SUPER SAN FOOD SERVICE SANITIZER**

to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.
Storage:
 Store locked up.
Disposal:
 Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION

Signal Word : Caution

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**
 Wash skin thoroughly after handling.
Response:
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Product AS SOLD**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride	68424-85-1	9.216
ethanol	64-17-5	1 - 5
Octyl decyl dimethyl ammonium chloride	32426-11-2	6.912
Diocetyl dimethyl ammonium chloride	5538-94-3	2.7648
Didecyl dimethyl ammonium chloride	7173-51-5	4.1472

Product AT USE DILUTION

Chemical Name

Chemical Name	CAS-No.	Concentration (%)
Octyl decyl dimethyl ammonium chloride	32426-11-2	0.014
Diocetyl dimethyl ammonium chloride	5538-94-3	0.005
Didecyl dimethyl ammonium chloride	7173-51-5	0.008
Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride	68424-85-1	0.018

No hazardous ingredients

SECTION 4. FIRST AID MEASURES**Product AS SOLD**

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
 In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

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SAFETY DATA SHEET**SUPER SAN FOOD SERVICE SANITIZER**

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
 If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
 Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
 Notes to physician : Treat symptomatically.

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES**Product AS SOLD**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Not flammable or combustible.

Hazardous combustion products : Decomposition products may include the following materials:
 Carbon oxides
 nitrogen oxides (NOx)
 Sulfur oxides
 Oxides of phosphorus

Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Product AS SOLD**

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

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SAFETY DATA SHEET**SUPER SAN FOOD SERVICE SANITIZER**

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE**Product AS SOLD**

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. For personal protection see section 8.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Product AS SOLD**

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm	NIOSH REL
		TWA	1,900 mg/m3	OSHA Z1
		TWA	1,000 ppm	
		TWA	1,900 mg/m3	

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

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SAFETY DATA SHEET

SUPER SAN FOOD SERVICE SANITIZER

Hand protection	: Face-shield : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection	: No personal respiratory protective equipment normally required.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection	: No special protective equipment required.
Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, red	light pink
Odor	: Disinfectants	slight
pH	: 6.0 - 9.0, 100 %	6.0 - 9.0
Flash point	: not applicable, Does not sustain combustion.	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: > 100 °C	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapor pressure	: no data available	
Relative vapor density	: no data available	
Relative density	: 0.99	

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SAFETY DATA SHEET

SUPER SAN FOOD SERVICE SANITIZER

Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: no data available
VOC	: no data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

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SAFETY DATA SHEET

SUPER SAN FOOD SERVICE SANITIZER

Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity : Acute toxicity estimate 1,549 mg/kg

Acute inhalation toxicity : no data available

Skin corrosion/irritation : no data available

Respiratory or skin sensitization : no data available

Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT-single exposure : no data available

STOT-repeated exposure : no data available

Aspiration toxicity : no data available

Ingredients

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SAFETY DATA SHEET

SUPER SAN FOOD SERVICE SANITIZER

Acute inhalation toxicity	: Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride 4 h LC50 rat: > 0.054 mg/l
	ethanol 4 h LC50 rat: 117 mg/l
	Octyl decyl dimethyl ammonium chloride 4 h LC50 rat: 0.07 mg/l
	Dioctyl dimethyl ammonium chloride 4 h LC50 rat: 0.07 mg/l
	Didecyl dimethyl ammonium chloride 4 h LC50 rat: 0.07 mg/l

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Ingredients

Toxicity to fish : Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride
96 h LC50 Fish: 0.515 mg/l

ethanol
96 h LC50 Fish: 11,000 mg/l

Octyl decyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

Didecyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

ethanol
96 h LC50 Fish: 11,000 mg/l

Octyl decyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

Didecyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

ethanol
96 h LC50 Fish: 11,000 mg/l

Octyl decyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

Didecyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

ethanol
96 h LC50 Fish: 11,000 mg/l

Octyl decyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

Didecyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

ethanol
96 h LC50 Fish: 11,000 mg/l

Octyl decyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

Didecyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

ethanol
96 h LC50 Fish: 11,000 mg/l

Octyl decyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

Didecyl dimethyl ammonium chloride
96 h LC50 Fish: 1 mg/l

911285-02

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Other adverse effects
no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)
Not dangerous goods

Sea transport (IMDG/IMO)

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (quaternary ammonium compound)
Class : 9
Packing group : III
Marine pollutant : yes

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number : 6836-305-1677

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) : not determined

Switzerland. New notified substances and declared preparations : On the inventory, or in compliance with the inventory

United States TSCA Inventory : On TSCA Inventory

Canadian Domestic Substances List (DSL) : All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances : On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory : not determined

Japan. ISHL - Inventory of Chemical Substances (METI) : not determined

Korea. Korean Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC) : On the inventory, or in compliance with the inventory

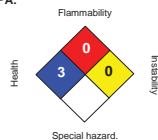
SECTION 16. OTHER INFORMATION

Product AS SOLD

SAFETY DATA SHEET

SUPER SAN FOOD SERVICE SANITIZER

NFPA:



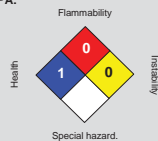
HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Product AT USE DILUTION

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Issuing date : 06/11/2014
Version : 1.0
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.