

# Safety Data Sheet

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name/Identifier</b>	Dishwasher Rinse Aid
<b>Product Code</b>	D6013 / D6014
<b>Product Use</b>	Anti-bacterial liquid with drying aid for a faster drying of dish wares in the dishwashing machine.
<b>Company Information</b>	Sparks Cleantech Pte Ltd 11 Mandai Estate, 08-03 Singapore 729908 +65 8606 4088 <a href="mailto:info@sparks.sg">info@sparks.sg</a>
<b>Emergency Contact</b>	+65 8606 4088

## SECTION 2 HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

Health		Environmental	Physical
Eye irritation	Category 2	Not classified	Not classified
Skin irritation	Category 2		

### GHS LABEL:



WARNING

### Hazard Statements:

H315 Causes skin irritation

H320 Causes eye irritation

### Precautionary Statements

#### Prevention:

P264 Wash thoroughly after handling

P280 Wear protective gloves.

### Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P337+P313 If eye irritation persists: Get medical advice/attention.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before use.

### Disposal:

P501 - Dispose of contents/container to an approved waste disposal plant.

## SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

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Chemical Identity	CAS #	Weight %
EO/PO block copolymer	9003-11-6	5-10
Lauryl Ether	68439-50-9	1-5
Citric Acid	5949-29-1	<1
Non-hazardous materials	Mixture	>85

## SECTION 4 FIRST AID MEASURES

### Eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.

### Skin contact

Remove contaminated clothing. Flush exposed area with large amount of water for at least 15 minutes followed by washing with soap. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.

### Inhalation

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

### Ingestion

If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment.

## SECTION 5 FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

Use water spray, fog or foam to cool fire exposed surfaces and to protect personnel.

### Unsuitable Extinguishing Media

Straight streams of water.

### Specific Hazards Arising from the Chemical

Oxides of carbon, smoke, fume, incomplete combustion products.

### Protection for Fire-fighters

Evacuate personnel to safe areas. Intervention only by capable personnel who are trained and aware of the hazards of the product. In the event of fire, wear self-contained breathing apparatus. Use water spray to cool fire exposed surfaces and to protect personnel.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions and Protective Equipment

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible products. Isolate the area. Cover the spreading liquid with foam in order to slow down the evaporation. Ventilate the area.

### Environmental Precautions

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal.

Prevent discharges into the environment (sewers, rivers, soils), basements or confined areas. Immediately

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notify the appropriate authorities in case of discharge.

Land Spill: Stop leak if you can do so without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. Vapour-suppressing foam may be used to reduce vapour. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapour, but may not prevent ignition in enclosed spaces. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do so without risk. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Shut off leaks, if possible without personal risks. Remove all possible ignitions in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

## SECTION 7 HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes. Prevent product vapours decomposition from contacting hot spots. Prevent product vapours decomposition from electric arc action (welding). Preferably transfer by pump or gravity. Use only equipment and materials which are compatible with the product. Keep away from heat and sources of ignition. Keep away from incompatible products.

### Conditions for Safe Storage

Keep container dry. Keep in a cool, well-ventilated place. Open slowly in order to control possible pressure release. Ground all equipment containing material. Storage containers should be earthed and bonded. Drums must be earthed and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Keep container tightly closed. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Storage temperature: Ambient  
Storage/Transport Pressure: Atmospheric

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Benzalkonium chloride 80%	Not Established	Not Established	Not Established	Not Established
Isopropyl alcohol	200ppm	400ppm	400ppm	500ppm

### Engineering Controls

Ensure adequate ventilation. Provide appropriate exhaust ventilation at machinery. Refer to protective measures listed in sections 7 and 8. Apply technical measures to comply with the occupational exposure limits.

### Personal Protective Equipment (PPE):

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## Eye Protection

Wear protective goggles for all industrial operations. If risk of splashing, chemical proof goggles/face shield.

## Skin Protection

Apron/boots of neoprene if risk of splashing. For hand protection, use chemical resistant protective gloves such as Polyvinyl alcohol.

## Respiratory Protection

In the case of hazardous fumes, wear self-contained breathing apparatus. Self-contained breathing apparatus in medium confinement/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection

## Thermal hazards

NA

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Magenta Red
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	NA
<b>pH</b>	8 - 10
<b>Melting Point/ Freezing Point (°C)</b>	Not determined
<b>Initial boiling point and range (°C)</b>	Not determined
<b>Flash Point (°C) [According to ISO 3679, Closed Cup Testing]</b>	No flash point detected (From ambient temperature to 93°C)
<b>Evaporation Rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapour Pressure</b>	Not determined
<b>Upper/lower Flammability (Explosive) Limits:</b>	Not determined
<b>Vapour Density</b>	Not determined
<b>Relative Density</b>	1.00 ± 0.03
<b>Solubility in water</b>	Soluble
<b>Partition coefficient (N-Octanol/water)</b>	Not determined
<b>Auto-ignition Temperature (°C)</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity (mPa s)</b>	<25

## SECTION 10 STABILITY AND REACTIVITY

### Reactivity/Incompatible materials

Strong acids. Strong bases. Strong oxidizers

### Chemical Stability

Stable under ordinary conditions of use and storage.

### Possibility of hazardous reactions

Not determined

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**Hazardous decomposition products**

No decomposition if stored normally

**Conditions to avoid**

Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid direct sunlight or ultraviolet sources.

**Materials to avoid**

Strong caustics and alkalis, strong oxidizers,

## SECTION 11 TOXICOLOGICAL INFORMATION

**Effects on humans:**Eye contact

- Can cause eye irritation

Skin contact

- May cause mild skin irritation

Ingestion

- Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

- No effect

## SECTION 12 ECOLOGICAL INFORMATION

**Toxicity**

No data available

**Persistence/Degradability**

Not expected to bio-accumulate significantly

**Bio accumulative Potential**

Not expected to bio-accumulate significantly

## SECTION 13 DISPOSAL CONSIDERATIONS

Local legislation

Dispose in compliance with local/federal and national regulations. It is recommended to contact the producer for recycling/recovery. Or send the product to an authorized hazardous waste incinerator.

Container Disposal

To avoid treatments, as far as possible, use dedicated containers. If not, rinse the empty containers with a low volatility hydrocarbon and treat the effluent in the same way as waste. Containers that cannot be cleaned must be treated as waste.

## SECTION 14 TRANSPORT INFORMATION

**Land (ADR)**

**UN number** Not regulated

**UN Class** NA

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**Subsidiary risk** NA  
**Packing Group** NA  
**Proper shipping name** NA  
**HIN** NA

## Sea (IMDG)

**UN number** Not regulated  
**UN Class** NA  
**Subsidiary risk** NA  
**Packing Group** NA  
**Proper shipping name** NA  
**Marine pollutant** NA

## Sea (Annex II of MARPOL 73/78 and the IBC Code)

**Pollution category** NA  
**Ship type** NA  
**Product name** NA

## Air (IATA)

**UN number** Not regulated  
**UN Class** NA  
**Subsidiary risk** NA  
**Packing Group** NA  
**Proper shipping name** NA

## Special precautions:

Before transportation, make sure the containers are tightly sealed and that there are no liquid or gas leaks.  
 When transporting containers, be sure that they are tightly fastened. An appropriate buffer material should be placed between them to prevent them from bumping each other and being damaged during transport.

## SECTION 15 REGULATORY INFORMATION

This SDS is in compliance with Singapore Standard SS586:2014, Globally harmonized system of classification and labelling of chemicals.

## USA Information

### Comprehensive Environmental Response and Liability Act of 1980 (CERCLA)

<u>Ingredient</u>	<u>CAS #</u>	<u>CERCLA RQ</u>	<u>RCRA Code</u>
Isopropyl alcohol	67-63-0	-	-

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**  
**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

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<u>Ingredient</u>	<u>Acute Hazard</u>	<u>Chronic Hazard</u>	<u>Fire Hazard</u>	<u>Pressure Hazard</u>	<u>Reactivity Hazard</u>
Isopropyl alcohol	Yes	Yes	No	No	No

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):** Isopropyl alcohol

**Canada Information**

**WHMIS classification:**

Isopropyl alcohol

- B2 Flammable liquid

**SECTION 16 OTHER INFORMATION**

This product is intended for use by skilled individuals at their own risk. The information, data and recommendations set forth herein are presented in good faith and are believed to be correct as of the date hereof. The company / manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The information is provided upon the condition that the persons receiving will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company / manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

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