

# Safety Data Sheet

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name/Identifier** : Automatic Dishwashing Liquid

**Product Code** : D6011 / D6012

**Product Use** : Chlorinated detergent to be used on dishwashing machines for effective removal of protein and food soils.

**Company Information** : Sparks Cleantech Pte Ltd  
11 Mandai Estate,  
08-03, S729908  
+65 8606 4088  
[info@sparks.sg](mailto:info@sparks.sg)

**Emergency Contact** : **+65 8606 4088**

## SECTION 2 HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

Health		Environmental	Physical
Eye Damage/Irritation	Category 1	Not Classified	Not Classified
Skin Corrosion	Category 1		

### GHS LABEL:



Danger

### Hazard Statements:

H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage

### Prevention:

P260 Do not breathe dust/fume/gas/mist/vapour/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Response:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTRE or doctor/physician.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P361 Remove/Take off immediately all contaminated clothing.

# Safety Data Sheet

P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

## SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	EC #	Weight %
Sodium hydroxide	1310-73-2	215-185-5	5-10
Sodium hypochlorite	7681-52-9	231-668-3	1-3
Non-hazardous Materials	Mixture	-	>70

## 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**

If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.

**Inhalation**

Remove the victim into fresh air. Seek for medical treatment in the event of symptoms.

**Ingestion**

Seek medical advice immediately. Rinse mouth with water and do not induce vomiting.

## SECTION 5 FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing agents appropriate for surrounding fire.

**Unsuitable Extinguishing Media**

No restrictions

**Specific Hazards Arising from the Chemical**

Hazardous decomposition products. Burning produces irritant fumes.

**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 a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Clean contaminated surface thoroughly.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Protective Equipment**

Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Keep away from incompatible products. Isolate the area.

**Environmental Precautions**

# Safety Data Sheet

Prevent discharges into the environment (sewers, rivers, soils). Immediately notify the appropriate authorities in case of discharge.

## Method for Cleaning Up & Containment

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Call for assistance for disposal.

## Emergency Procedures

Shut off leaks, if possible without personal risks. 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

Do not eat, drink or smoke in work area. Avoid contact with eye, skin and clothing. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors or spray mists. Avoid large quantities of material into live electrical motors and other such equipments.

### Conditions for Safe Storage

Keep container dry. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place.

Storage Temperature : Ambient  
Storage/Transport Pressure : Atmospheric

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Sodium Hydroxide 50%	1.2ppm	Not Established	1.2ppm	Not Established

### 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)

#### Eye Protection

Eye protection is not required under normal conditions of use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

#### Skin Protection

No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc) over parts of the body subjected to exposure. Launder soiled clothes. Proper dispose of contaminated leather articles including shoes, which cannot be decontaminated. Use rubber gloves if necessary.

#### 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.

# Safety Data Sheet

---

## Thermal Hazards

NA

---

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Clear to light Yellow
<b>Odour</b>	: Characteristic
<b>Odour Threshold</b>	: NA
<b>PH</b>	: 12-13
<b>Melting Point/ Freezing Point (°C)</b>	: Not determined
<b>Initial Boiling Point and Range (°C)</b>	: Not determined
<b>Flash Point (°C)</b>	: No flash point detected (From ambient temperature to 93°C)
<b>[ISO 3679, Closed Cup Testing]</b>	
<b>Evaporation Rate</b>	: Not determined
<b>Flammability (Solid, Gas)</b>	: Not applicable
<b>Upper/Lower Flammability (Explosive) Limits</b>	: Not determined
<b>Vapour Pressure</b>	: Not determined
<b>Vapour Density</b>	: Not determined
<b>Relative Density</b>	: 1.12 ± 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 oxidizers. Reducing agents, metals, acids, alkalis.

### Chemical Stability

Stable at normal conditions of use.

### Possibility of Hazardous Reactions

Not determined

### Hazardous Decomposition Products

Not applicable.

### Conditions to Avoid

Not applicable.

### Materials to Avoid

Strong oxidizers. reducing agents, metals, acids, alkalis.

---

## SECTION 11 TOXICOLOGICAL INFORMATION

No toxicological data available for the substances.

### Information on toxicological effects

#### Swallowed

# Safety Data Sheet

If swallowed in pure form, the material can produce severe chemical burns within the oral cavity and gastrointestinal tract following ingestion.

**Eye**

If applied to the eyes, this material causes severe eye damage. Direct eye contact with corrosive bases can cause pain and burns.

**Skin**

Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction may be deep. Open cuts, abraded or irritated skin should not be exposed to this material.

**Inhaled**

Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. In severe cases, lung swelling may develop, sometimes after a delay of hours to days.

## 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 1760  
UN Class 8  
Subsidiary Risk : NA  
Packing Group II  
Proper Shipping Name: Corrosive Liquid, N.O.S (sodium hydroxide)  
HIN : NA

**Sea (IMDG)**

UN Number 1760  
UN Class 8  
Subsidiary Risk : NA  
Packing Group II  
Proper Shipping Name: Corrosive Liquid, N.O.S (sodium hydroxide)  
HIN : NA

# Safety Data Sheet

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

Pollution Category : NA  
Ship Type 3  
Product Name: Corrosive Liquid, N.O.S (sodium hydroxide)

## Air (IATA)

UN Number 1760  
UN Class 8  
Subsidiary Risk: NA  
Packing Group II  
Proper Shipping Name: Corrosive Liquid, N.O.S (sodium hydroxide)

## 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.**

**This product does not contain any toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372).**

## WHMIS Classification:

E Corrosive material

## 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. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.