

Safety Data Sheet

ALKALINE COIL CLEANER

1. Identification of the substance/Preparation and of the company/Undertaking

Product Name : ALKALINE COIL CLEANER
CAS# : Mixture
Product Use : Coil Cleaner / Degreaser
Supplier : Lam Seng Hang Co. (Pte.) Ltd.
35 Tuas View Place Singapore 637881
Tel: (65) 67943909 Fax: 67943622

2. Hazard Identification

Pictogram:



Emergency overview : DANGER
CAUSES EYE BURNS. CAUSES SKIN BURNS.

Potential short term health effects

Routes of exposure : Eye, Skin contact, Inhalation, Ingestion.
Eyes : Causes chemical burns. May cause blindness.
Skin : Causes chemical burns. Harmful contact may not cause immediate pain.
Inhalation : May cause respiratory tract irritation or chemical burns.
Ingestion : Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.

Target organs : Eyes. Respiratory system. Skin.

Chronic effects : Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms : The product causes burns of eyes, skin and mucous membranes.

OSHA Regulatory Status : This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects : Components of this product have been identified as having potential

3. Composition/Information on ingredients

Ingredient(s)	CAS No.	% Content
Sodium Hydroxide	1310-73-2	10-30
Alkyl Polyglycoside	54549-24-5	1-5
Water	7732-18-5	65-89

4. First Aid Measures

First aid procedures

Eye contact

: Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact

: Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical advice immediately.

Inhalation

: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion

: Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

General advice

: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Use of an impervious apron is recommended. Keep out of reach of children.

5. Fire Fighting Measures:

Flammable properties

: Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media

: Dry chemical. Water spray. Carbon dioxide. Foam.

Unsuitable extinguishing media

: Not available

Protection of firefighters

Specific hazards arising from the chemical

: Not available

Protective equipment for firefighters

: Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

: May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact

: No.

Sensitivity to static discharge

: No.

6. Accidental Release Measures:

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions:

Do not discharge into lakes, streams, ponds or public waters.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling & Storage:

Precautions for safe handling: Do not get in eyes, on skin or on clothing. Use good industrial hygiene practices in handling this material. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid breathing vapors or mists of this product.

Conditions for safe storage (including any incompatibilities): Keep out of the reach of children. Store in a closed container away from incompatible materials.

8. Exposure controls/Personal protection:

Exposure Limits Ingredient(s)	Exposure Limits
Sodium Hydroxide	ACGIH-TLV Ceiling : 2mg/m3 OSHA-PEL TWA : 2mg/m3
Alkyl Polyglycoside	ACGIH-TLV Not established OSHA-PEL Not established

Engineering controls

: General ventilation normally adequate.

Personal protective equipment

Eye / face protection

: Wear chemical goggles.

Hand protection

: Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

: As required by employer code. Rubber apron recommended.

Respiratory protection

: Avoid breathing mists or vapors.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations

: Use good industrial hygiene practices in handling this material.

When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties:

Appearance	: Liquid.
Color	: Yellowish
Form	: Liquid
Odor	: Characteristic, Mild
Odor threshold	: Not available
Physical state	: Liquid
pH	: 12-14 (Concentrate)
Melting point	: Not available
Freezing point	: 32.00 °F (0 °C)
Boiling point	: 212.00 °F (100 °C)
Pour point	: Not available
Evaporation rate	: Not available
Flash point	: None to boiling
Auto-ignition temperature	: Not available
Flammability limits in air, lower, % by volume	: Not available
Flammability limits in air, upper, % by volume	: Not available
Vapor pressure	: Not available
Vapor density	: Not available
Specific gravity	: 1.242 ± 0.005
Octanol/water coefficient	: Not available
Solubility (H2O)	: Complete
VOC (Weight %)	: Not available
Viscosity	: Not available
Percent volatile	: 76

10. Stability and Reactivity:

Reactivity	: Reacts violently with acids. This product may react with oxidizing agents.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Chemical stability	: Stable under recommended storage conditions.
Conditions to avoid	: Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers. Do not mix with other chemicals.
Incompatible materials	: Acids. Oxidizing agents.
Hazardous decomposition products	: May include and are not limited to: Oxides of carbon.

11. Toxicological Information:

Component Analysis – LC50 Ingredient(s)	LC50
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Alkyl Polyglycoside	Not Available
Sodium Hydroxide	Not Available
Component Analysis – Oral LD50 Ingredient(s)	LD50
Alkyl Polyglycoside	5000 mg/kg rat
Sodium Hydroxide	Not Available

Effects of acute exposure

Eye

: Causes chemical burns. May cause blindness.

Skin

: Causes chemical burns. Harmful contact may not cause immediate pain.

Inhalation

: May cause respiratory tract irritation or chemical burns.

Ingestion

: Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.

Sensitization

: Non-hazardous by WHMIS/OSHA criteria.

Chronic effects

: Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity

: Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity

: Non-hazardous by WHMIS/OSHA criteria.

Reproductive effects

: Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity

: Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic

: Not available

Products

12. Ecological Information:

Ecotoxicity

: Components of this product have been identified as having potential environmental concerns.

Ecotoxicity

Freshwater Fish - Acute Toxicity Data

Sodium hydroxide 1310-73-2 96 Hr LC50

Oncorhynchus mykiss: 45.4 mg/L [static]

Persistence / degradability

: Not available

Bioaccumulation / accumulation

: Not available

Mobility in environmental media

: Not available

Environmental effects

: Not available

Aquatic toxicity

: Not available

Partition coefficient

: Not available

Chemical fate information

: Not available

Other adverse effects

: Not available

13. Disposal considerations:

Disposal instructions

: Dispose in accordance with all applicable regulations.

Waste from residues / unused products

: Not available

Contaminated packaging

: Not available

14. Transportation Information:

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name : Corrosive liquid, basic, inorganic, n.o.s. (SODIUM HYDROXIDE RQ = 5000 lbs)

Hazard class : 8

UN number : UN3266

Packing group : II

Additional information:

Special provisions : B2, IB2, T11, TP2, TP27

Packaging exceptions : <0.3 Gallon - Limited Quantity

ERG number : 154

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

Hazard class : 8

UN number : UN3266

Packing group : II

Additional information:

Special provisions : 16

Packaging exceptions : <1L - Limited Quantity

15. Regulatory Information:

WHMIS status : Controlled

WHMIS classification : Class E - Corrosive Material

WHMIS labeling



16. Other Information:

Further information:

The information provided in this safety data sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as guidance for safe handling use processing storage, transportation disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operation mention are beyond our control. 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

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- 6 -

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