

## Material Safety Data Sheet

### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

**PRODUCT NAME: OPEN UP SH**

Synonyms: None

Recommended Use: Drain cleaner

**Supplier:** Minehan Agencies Pty Ltd

**Address:** 29 Camuglia Street GARBUTT Townsville Queensland Australia 4814

**Telephone:** (07) 4774 4626

**Facsimile:** (07) 4774 4616

**E-mail:** inquiry@minehanagencies.com.au

**Emergency telephone number: 0408 777 800** (24Hrs Australia)

### 2. HAZARDS IDENTIFICATION

This product is classified as:

**Hazardous Substance** according to criteria of the National Occupational Health and Safety Commission (NOHSC).

**Dangerous Goods** according to the Australian Dangerous Goods Code (ADG Code).

|  |   |
|--|---|
| <b>Approved Criteria Classification</b><br>(Calculated). | <b>CORROSIVE R35, HARMFUL R20/21/227</b><br><b>Safety Phrases S1/2, S36/37/39</b> |
| <b>SUSDP Classification</b>                              | <b>Poison S6</b> (Sodium Hydroxide)   |
| <b>ADG Classification</b>                                | <b>Class 8 (Sodium Hydroxide Solution.)</b>                                       |
| <b>Un Number</b>   | <b>1824</b>   |

## EMERGENCY OVERVIEW

|                             |  |
|-----------------------------|--|
| <b>COLOUR</b>               | STRAW COLOURED   |
| <b>PHYSICAL DESCRIPTION</b> | LIQUID   |
| <b>ODOUR</b>                | Faint  |
| <b>MAJOR HEALTH HAZARD</b>  | Severe burns, permeant eye damage<br>Harmful by inhalation, ingestion &<br>into contact with skin. |

## Material Safety Data Sheet

# POTENTIAL HEALTH EFFECTS

**Inhalation: Short term exposure.** Corrosive, irritation, nausea, vomiting, difficulty breathing, headache, drowsiness, symptoms of drunkenness, lung congestion. **Long term Exposure.** Possible lung and respiratory tract damage, may trigger pre-existing respiratory complaints.

**Skin Contact: Short term exposure.** Severe burns, redness and irritation. **Long term exposure.** Permanent scarring. Prolonged exposure to a diluted form may cause irritation, redness and dermatitis.

**Eye Contact: Short term exposure.** Severe burns, serious eye damage. **Long-term exposure.** Permanent damage to eyes including blindness.

**Ingestion: Short term exposure.** Severe burns to mouth, oesophagus and stomach. Headaches, nausea, and severe abdominal pain may result. **Long-term exposure.** Permanent Gastrointestinal damage.

### Carcinogen Status

|       |                |
|-------|----------------|
| NOHSC | Not Classified |
| NTP   | Not Classified |
| IARC  | Not Classified |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| CHEMICAL ENTITY                                  | CAS No    | PROPORTION W/W % |
|--|-----------|------------------|
| Sodium Hydroxide                                 | 1310-73-2 | 50%              |
| Alkyl polyglucoside                              | 7732-18-5 | 1-5%             |
| Other ingredients determined not to be hazardous |           | to 100%          |

### 4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for Scheduled Poisons: Phone (Australia 13 1126).

**Inhalation:** Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Perform artificial respiration if needed. Allow patient to assume most comfortable position and keep warm. Seek medical attention.

**Skin Contact:** Remove contaminated clothing. Wash contaminated skin for at least 15-20mins with of water, or until no evidence of the chemical remains (this product will feel slippery or soapy on the skin.). If swelling, redness, blistering, or irritation occurs seek medical advice. Wash clothing before re-use.

**Eye Contact:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. If present, remove contact lenses. Seek medical attention. **Note to Physician.** Can cause corneal burns

**Ingestion:** Immediately rinse mouth with water. Do NOT induce vomiting. Seek urgent medical attention.

**Notes to Physician:** Treat symptomatically. Suggest intubation BEFORE any emesis due to foaming properties of this product.

## Material Safety Data Sheet

### 5. FIRE FIGHTING MEASURES

**Flash Point:** Not a Flammable or Combustible liquid.

**Fire and Explosion Hazard:** Non-combustible material. Closed containers exposed to heat may explode.

**Specific Hazards:** Corrosive Liquid. May produce explosive, flammable gas when in contact with aluminium, zinc and other light metals. Releases ammonia gas in contact with ammonium salts or ammonia solutions.

**Fire Fighting:** Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dam for later disposal. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. **Suitable Extinguishing Media:** Not combustible, however, if material is involved in a major fire use water fog to keep drums cool. Use foam, CO<sub>2</sub> or dry chemical powder to extinguish surrounding fire.

**Hazardous Decomposition in Products:** On burning may emit fumes including carbon monoxide, carbon dioxide, and partially burned hydrocarbons. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

**Hazchem Code:** 2R

### 6. ACCIDENTAL RELEASE MEASURES

Alkaline liquid. Stop leak if possible without personal risk. Wear protective equipment to prevent personal injury (see section 8). **Small spills (< 5L)** Cover with an absorbent material (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal. Hose down area with large amounts of water. Caution, Slip Hazard. **Large spills (>5L)** Prevent run off into drains and waterways. Dam material. Cover with absorbent material. Collect and seal in properly labelled containers for disposal. Neutralise residual material with a mild acid (citric or acetic). Hose down area with large amounts of water. Keep unnecessary people away, isolate hazard area and deny entry. If contamination of sewers or waterways has occurred, advise local emergency services.

### 7. HANDLING AND STORAGE

Store in a well-ventilated area. Store in a cool, dry place and out of direct sunlight. Store away from foodstuffs and strong acids. Store in original containers. Do not store in aluminium containers. Keep containers closed when not in use – check regularly for leaks. This material is a Scheduled Poison and a Class 8 Corrosive liquid and must be stored, maintained and used in accordance with the relevant regulations. Handle using good industrial hygiene practices (see section 8 on personal protection).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** No value has been assigned for this specific material by NOHSC. However exposure limits for ingredients are shown below

| Ingredient       | TWA  | STEL | Notices |
|------------------|------|------|---------|
| Sodium Hydroxide | 2ppm | 5ppm |         |
|                  |      |      |         |

TWA – the Time-Weighted Average airborne concentrations over an eight hour working day, for a five day week over an entire working life.

## Material Safety Data Sheet

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Sk Notice – absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Sen Notice-Sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to minute levels of that substance.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Biological Limit Value:** No biological limit allocated.

**Engineering Controls:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards and prevent exposure to vapours, mists and fumes. Use in well ventilated area. Keep containers closed when not in use.

### Personal Protection Equipment

**Respirator Type (AS 1716):** If inhalation risk exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Eye Protection:** Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

**Glove Type:** Impervious PVC or rubber gloves should be worn.

**Clothing:** Suitable protective clothing should be worn eg: cotton overalls buttoned at neck and wrist.

**Work/Hygienic Practices:** Avoid skin and eye contact. Always wash hands before smoking, eating, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                  |                    |  |                      |                           |
|------------------|--------------------|--|----------------------|---------------------------|
| Physical State   | Liquid             |  | Water Solubility     | Soluble                   |
| Colour           | Straw              |  | Vapour Pressure      | Unknown                   |
| Odour            | Faint              |  | Vapour Density       | Above 1 (air =1)          |
| Boiling Point    | >100°C             |  | Evaporation Rate     | Slower than butyl acetate |
| Melting Point    | NA                 |  | % Volatiles          | 50%                       |
| Freezing Point   | Unknown            |  | Flash Point          | Not Flammable             |
| Specific Gravity | 1.3g/ml (water =1) |  | Flammability Limits  | NA                        |
| Ph (neat)        | 13+                |  | Ignition Temperature | NA                        |

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable at normal temperatures and pressure.

**Conditions to Avoid:** Avoid contact with incompatible materials.

**Incompatibilities:** Strong Oxidising Agents, Strong Acids, Light Metals (Al, Sn, Pb, Zn)

Explosive reactions may occur with strong oxidising agents.

Violent heat producing reactions may occur with strong acids.

An explosive, flammable gas (Hydrogen gas) is produced when in contact with light metals.

## Material Safety Data Sheet

**Hazardous Decomposition:** Thermal decomposition products include, sulphur dioxide, carbon dioxide, carbon monoxide, and Nitrous oxides.

**Polymerisation:** Will not polymerise.

### 11. TOXICOLOGICAL INFORMATION

## Open Up SH

**Local Effects:** Corrosive and Toxic: Inhalation, skin, eyes, and ingestion.

**Target Organs:** Eyes, Skin, and Respiratory System.

### Classification of Hazardous Ingredients

| Ingredients      | R Phrases          |
|------------------|--------------------|
| Sodium Hydroxide | R35, R41 R20/21/22 |
|                  |                    |

### Individual Ingredient Information

#### Sodium Hydroxide

**Irritation Data:** Skin Human, Patch test, 0.2ml of 0.5% soln, irritating for 55% of volunteers. Eye Rabbit, 0.004-0.2% non-irritant, 0.4% mild, 1.2% corrosive.

**Toxicity Data:** Repeated dose; no valid studies available. However under normal safe handling conditions and use (ie non-irritating) Sodium Hydroxide is not expected to be systemically available in the body.

**Local Effects:** Causes severe burns to eyes and skin. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns.

**Acute Toxicity Level:** Dependant on concentration and dose. Lethality has been reported for animals at doses 240-400mg/Kg. Fatal ingestion and fatal dermal exposure has been reported in humans. One person who ingested 10g of Sodium Hydroxide (equivalent to 45mls of Coil Shine) in water suffered transmural necrosis of the esophagus and stomach and died 3 days after admission to hospital. A 42-year-old female swallowed approximately 30mls of 16% Sodium Hydroxide solution (equivalent to 20mls Coil-Shine), it resulted in a 9cm stricture of the esophagus which was treated by gastric antral patch esophagoplasty.

**Target Organs:** Eyes, skin, mucous membranes, respiratory system

#### Sodium Hydroxide cont

**Mutagenic Data:** Both *in vitro* and *in vivo* genetic toxicity tests indicated no evidence for a mutagenic activity.

**Reproduction Effects Data:** It can be stated that the substance will neither reach the foetus nor reach the male and female reproductive organs, which shows that there is no risk for developmental toxicity and no risk for toxicity to reproduction

Ref: OECD SIDS Initial Assessment Report, Sodium Hydroxide, Paris, 26-28 March 2002.

## Material Safety Data Sheet

### 12. ECOLOGICAL INFORMATION

**General Statement:** Do not allow large quantities (>20L) of this product to enter the waterways. Strong alkaline effect will be detrimental to aquatic life.

**Ecotoxicity:** The hazard of this product for the environment is due to the high Sodium Hydroxide content (pH effect). The effect of Sodium Hydroxide on an organism depends on the buffer capacity of the aquatic or terrestrial ecosystem. LC50 values of acute toxicity tests with aquatic organisms ranged between 33 and 189 mg/L.

**Persistence and Degradability:** No specific information available for this product

**Mobility:** Very mobile in soil and very soluble in water. No transport to air

### 13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority for disposal, show this MSDS for their consideration. Empty containers not to be recycled or used for any other purpose. Dispose in accordance with local regulations.

### 14. TRANSPORTATION INFORMATION

|                             |                         |
|-----------------------------|-------------------------|
| <b>UN No</b>                | 1824                    |
| <b>Proper Shipping Name</b> | Corrosive Liquid N.O.S. |
| <b>ADG Code</b>             | Class 8                 |
| <b>Sub Risk</b>             | Class 6.1               |
| <b>Packing Group</b>        | II                      |
| <b>Special Precautions</b>  | None                    |
| <b>Hazchem Code</b>         | 2R                      |
| <b>EPG</b>                  | 8A1 & 6A6               |
| <b>Segregations</b>         | Yes                     |

### 15. REGULATORY INFORMATION

**SUSDP:** Poison S6

**AICS:** All of the constituents of this material are listed on the ACIS.

### 16. OTHER INFORMATION

**Issue Date:** Nov 2010

**Reason(s) For Issue:** Updated format to comply with NOHSC: 2011(2003).

#### Labelling Details

**First line of Label must read: POISON**

**Other statements to include**

|                  |  |
|------------------|--|
| <b>R35</b>       | Cause severe burns   |
| <b>R41</b>       | Risk of serious damage to eyes   |
| <b>R20/21/22</b> | Harmful by inhalation, in contact with skin, and if swallowed  |
| <b>S1/2</b>      | Keep locked up and out of reach of children.   |
| <b>S26</b>       | In case of contact with eye/s, do NOT rub eyes as this may scratch the cornea, rinse immediately with plenty of water and seek medical advice. |

## Material Safety Data Sheet

**S36/37/39** Wear Suitable protective clothing, gloves and eye/face protection  
**S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible).

### Abbreviations and Acronyms

**SUSPD:** Standard for the Uniform Scheduling of Drugs and Poisons  
**ADG:** Australian Code for the Transport of Dangerous Goods by Road and rail  
**N.O.S.** Not Otherwise Specified  
**CAS No:** Chemical Abstracts Service Registry Number  
**UN No:** United Nations Number  
**R-Phrases:** Risk Phrases  
**S-Phrases:** Safety Phrases  
**HAZCHEM Code:** Hazardous Chemical emergency action code  
**NOHSC:** National Occupational Health and Safety Commission  
**IARC:** International Agency for Research into Cancer  
**ACIS:** Australian Inventory of Chemical Substances  
**NTP:** National Toxicology Program (USA)

### Literary references:

Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(41999)]  
National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC: 2011(2003)]  
Exposure Standards for Atmospheric Contaminants in the Occupational Environment  
Guidance Note [NOHSC: 3008(1995)] National Exposure Standards [NOHSC: 10005(1999)]  
List of Designated Hazardous Substances [NOHSC: 10005(1999)]  
Standard for the Uniform Scheduling of Drugs and Poison No. 17  
The Australian Code for the Transport of Dangerous Goods by Road and Rail EDITION 6

### Disclaimer

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product and in particular how to safely handle and use the product in the workplace.  
Since Minehan Agencies Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace i.e. a risk analysis.  
If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Minehan Agencies Pty Ltd.