

SAFETY DATA SHEET



PHOENIX®

Issue Date: August 2019

Revision No: 3.0

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PX STANDARD DEGREASER

Code : STDDEGR
Proper Shipping Name : Sodium Hydroxide Solution
Use : Heavy duty alkaline degreaser/cleaner.
Name : Phoenix Lubricants Pty Ltd (ABN 41 820 770 617)
Address : 2 Paul Court, Dandenong Vic 3175
Telephone : (03) 9791 7661
Facsimile : (03) 9791 8831
Email : info@phoenixlubricants.com.au
Web : www.phoenixlubricants.com.au

2. HAZARD IDENTIFICATION

CLASSIFIED AS A HAZARDOUS CHEMICAL ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA

Hazard Class and Category:

Corrosive to Metals Category 1

Skin Corrosion/Irritation Category 1B

Eye Damage Category 1

Signal Word:

DANGER

GHS Pictograms:



Hazard Statements:

H314: Causes severe skin burns and eye damage

H290: May be corrosive to metals.

Precautionary Statements:

P260: Do not breathe vapour, spray or mists

P264: Wash hands thoroughly after handling

P280: Wear protective gloves and eye protection.

P234: Keep only in original container.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.

P363: Wash contaminated clothing before reuse

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.

P310: Immediately call a POISON CENTRE or Doctor.

P390: Absorb spillage to prevent material damage.

2. HAZARD IDENTIFICATION (CONTINUED)

P406: Store in corrosive resistant container, or with a resistant inner liner.

P405: Store locked up.

P501: Dispose of contents as hazardous waste.

Poison Schedule : S6

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS:

| Component | CAS No. | Conc, % |
|---|-----------|---------|
| Sodium hydroxide | 1310-73-2 | 6.5% |
| Anionic and Non-ionic surfactants | Various | <10% |
| Butyl glycol ether | 111-76-2 | <10% |
| Other ingredients not classified as hazardous chemicals according to Safe Work Australia Criteria | | |

4. FIRST AID MEASURES

REMOVE FROM EXPOSURE IF SAFE TO DO SO

this product is very corrosive to the body on contact. First aid must be given without delay.

Consult the Poisons Information Centre (phone: 13 11 26) for initial advice. All personnel must read and understand this SDS before using this product.

- Swallowed** : *Unlikely exposure route*
- Thoroughly wash out mouth with water
 - Give a large quantity of water to drink
 - Do not induce vomiting
 - Seek immediate medical attention
 - Keep at rest.
- Eye** :
- Hold eye open
 - Irrigate with water until irritation subsides (at least 15 minutes)
 - Seek immediate medical attention
 - Continue irrigation with normal saline or water until the pain of the burn is relieved
- Skin** :
- Flush area with large amounts of water
 - Wash skin with soap and water
 - Remove contaminated clothing, and wash before reuse
 - Obtain medical attention
- Inhalation** :
- Remove from exposure if safe to do so
 - Loosen/remove clothing
 - Move to fresh air
 - Administer artificial respiration if breathing has stopped
 - Seek immediate medical attention
 -
- First Aid Facilities** : It is recommended that where this product is handled in more than minor quantities (Greater than 500ml) the following minimum facilities be readily available:
- Emergency shower and eyewash facilities

ADVICE TO DOCTOR

- Treat symptomatically as for caustic alkali exposure.
- Can cause corneal burns.
- Further information about treatment of sodium hydroxide exposure can be obtained from the Australian Poisons Information Centre.

AUSTRALIAN POISONS INFORMATION CENTRE
24 HOUR SERVICE 13 11 26

NEW ZEALAND POISONS INFORMATION CENTRE
24 HOUR SERVICE 0800 764 766

5. FIRE FIGHTING MEASURES

- Hazchem Code** : 2R
- Fire & Explosive Properties** : Non-combustible liquid.
- Suitable Extinguishing Media** : Use extinguishing media suitable for other materials present.
- Hazards from Combustion Products** : Will react with some metals (aluminium, zinc & tin) to produce flammable and potentially explosive hydrogen gas.
In a fire when water has boiled off, will produce irritating, corrosive, toxic fumes and aerosols.
- Precautions for Fire Fighters - Special Equipment** :
 - Positive pressure self-contained breathing apparatus (SCBA) and protective suit
 - Protective fire fighting clothing
 - Fight from upwind

| HAZCHEM Emergency Action Code | | | |
|-------------------------------------|----------------------|---------------|---------|
| FOR FIRE OR SPILLAGE | | | |
| 1 | COARSE SPRAY | | |
| 2 | FINE SPRAY | | |
| 3 | FOAM NORMAL PROTEIN | | |
| 4 | DRY AGENT | | |
| 5 | ALCOHOL RESISTANT | | |
| P | V | LTS | DILUTE |
| R | | | |
| S | V | BA & FIRE KIT | |
| T | | | CONTAIN |
| W | V | LTS | |
| X | | | |
| Y | V | BA & FIRE KIT | |
| Z | | | |
| E | PUBLIC SAFETY HAZARD | | |

* SEE LEGEND OVER

6. ACCIDENTAL RELEASE MEASURES

- Spills or Leaks** :
 - Restrict access to area until clean-up is completed
 - Wear PPE as per this MSDS
 - Absorb / contain waste, use earth, vermiculite, inert material
 - Collect and seal in appropriate container
 - Label the container
 - Create bund
 - Surfaces will be slippery.
 - Observe regulatory reporting requirements (Incident Notification)
- Disposal** :
 - Dispose of in accordance with State, Local Government, EPA or related Regulations or Codes of Practice.

| LEGEND | |
|--|--|
| DRY AGENT | Do not use water |
| ALCOHOL RESISTANT FOAM #2 OR #3 | When * appears in front of 2 or 3 in Hazchem code use alcohol resistant foam if available |
| V | Substances can be violently or even explosively reactive, including combustion |
| LTS | Liquid-Tight Chemical Protective Suit with BA. Full FIRE KIT to also be worn for protection when. |
| Liquid Oxygen | <ul style="list-style-type: none"> • Liquefied Toxic Gas (Division 2.3) • Toxic Gas with sub-risk 2.1 or 5.1 • Class or sub-risk 3 • Division 5.1 PGI with sub-risk 6.1 or 8 transported at temperature > 100°C |
| DILUTE | are involved May be washed to drains with large quantities of water, consider EPA or Water Authority |
| CONTAIN | Prevent, by any means available, spillage from entering drains or water courses |
| E | People to be warned to stay indoors with all doors and windows closed. Evacuation may need to be considered, Joint Incident Control decision |

7. HANDLING AND STORAGE

- Precautions for Safe Handling** :
 - Eye wash and safety shower to be available in the workplace.
 - Wear PPE as per this SDS
 - Compliant eyewash to be provided for external work.
 - Observe good personal hygiene practices.
 - Wash hands thoroughly after handling.
 - Do not allow contact with skin and eyes.
 - Use only in well ventilated areas. Ensure Exposure Standards are not exceeded
 - Wear respiratory protection if spray or mist is present.
 - No eating, drinking or smoking in the work area.
 - Remove contaminated clothing before entering eating areas.
- Conditions for Safe Storage** :
 - Store away from food, drink and animal feedstuffs.
 - Store away from oxidising agents, and strongly acid materials.
 - Provide ventilation and containment of spills.
 - Separate or segregate from incompatibles (in accordance with regulatory requirements).
 - Avoid direct sunlight.
 - Keep protected from weather.
 - Provide spill kit.
- Container Type Incompatible Materials** :
 - Store in original packaging as approved by manufacturer or regulatory direction.
 - Acids, aluminium, zinc, tin, hydrogen peroxide solutions,

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONSTITUENT DATA

| Components | CAS-No. | Type | Value |
|------------------|-----------|------|--------------------------------|
| Sodium hydroxide | 1310-73-2 | Peak | 2 mg/m ³ |
| 2-butoxyethanol | 111-76-2 | TWA | 20 ppm / 97 mg/m ³ |
| | | STEL | 50 ppm / 242 mg/m ³ |

ENGINEERING CONTROLS

- Provide local exhaust when exposure standards might be exceeded.

PERSONAL PROTECTION

- Eye Protection** : Wear chemical splash goggles or face shield in accordance with **AS/NZS1337, Eye protection for industrial applications.**
- Gloves** : Wear chemical protective gloves (eg nitrile) in accordance with **AS/NZS 2161.1 - Occupational protective gloves, selection, use and maintenance** where contact may occur.
- Clothing** : Wear body protective clothing and industrial footwear in accordance with **AS2919 - Industrial clothing.**
- Respiration** : If ventilation is inadequate or if sprays or mists occur, wear an approved respirator in accordance with **AS/NZS1715 - Selection, use and maintenance of respiratory protective devices**



Available



Side shields



or



PVC



Industrial



Non slip



or



Organic

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear red liquid
- Odour** : Sharp/sweet
- pH** : 13, strongly alkaline
- Vapour Pressure (kpa)** : Approx. 2.7kPa at 20 Deg C
- Vapour Density** : No data
- Boiling Point** : 100 deg. C.
- Freezing / Melting Point** : No specific data. <0 Deg C
- Solubility in Water** : Complete
- Specific Gravity** : 1.06
- Flash Point** : Non-flammable
- Percent Volatiles** : 100
- Upper Explosive Limit** : NOT APPLICABLE
- Lower Explosive Limit** : NOT APPLICABLE
- Auto ignition Temperature** : Not Applicable
- VOC Content** : 100%
- Evaporation Rate** : N/A
- Kinematic Viscosity @ 40°C** : N/A
- Octanol / Water Partition** : N/A
- Coefficient** : N/A
- Saturation Vapour Concentration** : N/A
- Decomposition Temperature** : N/A

10. STABILITY AND REACTIVITY

| | | |
|---|---|--|
| Chemical Stability | : | Product is stable under normal conditions of use, storage and temperature. |
| Conditions to Avoid | : | Do not store in aluminium or zinc galvanized containers |
| Incompatible Materials | : | Sodium hydroxide is corrosive to aluminium zinc & tin. Incompatible with acids, ammonia, ammonium salts, hydrogen peroxide & chlorinated solvents. |
| Hazardous Decomposition Products | : | On strong heating, as in a fire, this product will produce corrosive, toxic fumes containing sodium oxides and carbon monoxide. |
| Hazardous Reactions | : | This product attacks the above metals slowly to produce flammable hydrogen gas which can form explosive mixture in air. |

11. TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS (IMMEDIATE OR WITHIN 14 DAYS - SHORT TERM)

| | | |
|-------------------------|---|--|
| Swallowed (Oral) | : | Causes damage to the digestive tract. Can cause nausea, vomiting, diarrhoea, abdominal cramps, burning of the mouth, throat and stomach. |
| Eye | : | Causes severe irritation and permanent damage to the eye. Can cause corneal burns and permanent damage, even blindness if not removed quickly. Mist and spray are irritating to eyes at low concentrations. |
| Skin (Dermal) | : | On contact with skin can cause severe irritation and burns. |
| Inhalation | : | Inhalation of vapour may produce nausea or headaches. Inhalation of mist or spray can produce irritation of the nose, throat and respiratory system, the higher the concentration and amount the more severe the irritation. |

CHRONIC (MEDIUM OR LONG TERM)

The major health hazards associated with this product are due to the corrosive nature of sodium hydroxide on short term (acute) exposure. Prolonged or repeated exposure to mist or spray may also cause bronchial irritation with chronic cough. Butyl glycol ether can cause blood changes in test animals on long term exposure.

CARCINOGENICITY

- There is no evidence for sodium hydroxide or 2-butoxyethanol being carcinogenic, mutagenic or teratogenic to humans.

12. ECOLOGICAL INFORMATION

| | | |
|--------------------------------------|---|---|
| Ecotoxicity | : | May be harmful to aquatic organisms. |
| Persistence / Degradability | : | Material expected to be readily biodegradable. Degrades rapidly in air. |
| Mobility | : | Will bind to soil. |
| Environmental Fate (Exposure) | : | Do not allow waste product to reach waterways, drains and sewers |

13. DISPOSAL CONSIDERATIONS

| | | |
|---|---|---|
| Disposal Methods | : | |
| Special Precautions for Landfill or Incineration | : | Dispose of as hazardous waste with a licensed contractor. |

14. TRANSPORT INFORMATION

ENSURE ALL PACKAGES ARE IN ACCORDANCE WITH THE AUSTRALIAN DANGEROUS GOODS CODE (ADGC)

| | | |
|--|---|---------------------------|
| UN Number | : | 1824 |
| UN Proper Shipping Name | : | Sodium hydroxide solution |
| Dangerous Goods Class and Subsidiary Risk | : | Class 8: Corrosive |
| Packing Group | : | II |

14. TRANSPORT INFORMATION (CONTINUED)

Hazchem Code : 2R
Limited Quantities 1L
Marine Pollutant : No

Dangerous Goods Segregation:

This product is classed as Dangerous Goods Class 8, packing group II.
Not to be loaded in a placard load with Class 1, 4.3, 5.1, 5.2, 7, 8 (concentrated strong acids), food or food empties.

15. REGULATORY INFORMATION (AUSTRALIA)

COUNTRY: Australia
INVENTORY: AICS
INGREDIENT STATUS: Listed
POISON SCHEDULE: S6 sodium hydroxide

Hazardous Chemical according to the criteria of Safe Work Australia.

16. OTHER INFORMATION

References : For detailed advice on personal protective equipment, refer to the following Australian Standards:

- AS/NZS 1337: Eye protectors for industrial applications
- AS/NZS 1715: Selection, use and maintenance of respiratory devices
- AS/NZS 1716: Respiratory protective devices

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS Australian Inventory of Chemical Substances
SWA Safe Work Australia, formerly ASCC and NOHSC
CAS number Chemical Abstracts Service Registry Number
Hazchem Code Emergency action code of numbers and letters that provide information to emergency services especially firefighters
SUSMP Standard for the Uniform Scheduling of Medicines & Poisons
UN Number United Nations Number

CONTACT POINT

Emergency Phone: **Chemcall: 1800 127 406**. For other information concerning details on this Safety Data Sheet,

Phoenix Lubricants Pty Ltd, 2 Paul Court, Dandenong Vic, (03) 9791 7661

All reasonable care has been taken to ensure that the information and advice contained herein is accurate at the time of printing. However, Phoenix Lubricants Pty Ltd accepts no tortious or contractual liability for any loss or damages suffered as a consequence of reliance on the information and advice contained herein.

Note:

This SDS is derived from International and Australian data and is formatted generally in accordance with the Safe Work Australia Code of Practice. Modifications are not made to technical data except where terminology is unclear or additional information is required to satisfy Australian requirements.

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