



## Section 1: Identification of the Material and Supplier

**Product Name:** Maxi Release

**Other Names:** Sodium hydroxide mixture in water.

**Proper shipping name (ADG Code):** Sodium hydroxide solution, 30 % w/v.

**Recommended use:** As an alkali detergent.  
Use as directed on the product label.

**Supplier:** DASCO Pty. Ltd.,  
ABN: 14 004 581 113  
24 - 26 Helen Street, HEIDELBERG HEIGHTS VIC 3081  
Tel: (03) 9459 7004 (business hours)  
Fax: (03) 9459 9200

**Emergency Phone Numbers:**  
Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.

Dangerous goods.

**Risk Phrases:** R: 35 Causes severe burns.

**Safety Phrases:** S: 1/2. Keep locked up and out of the reach of children.  
S: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S: 37/39 Wear suitable gloves and eye/face protection.  
S: 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## Section 3: Composition/Information on Ingredients

**Ingredients:**

|                   |             |          |
|-------------------|-------------|----------|
| Sodium hydroxide  | [1310-73-2] | 30 %     |
| Other ingredients |             | < 10 %   |
| Water             | [7732-18-5] | to 100 % |

## Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131 126) or a doctor.

Swallowed: If swallowed, do NOT induce vomiting.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Eyes: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Center or a doctor, or for at least 15 minutes.

Inhaled: Remove from exposure.

### First Aid facilities:

Mandatory: Eye wash. Hand wash basin.

Recommended: Emergency shower if handling industrial quantities.

### Advice to Doctor:

Product is a strong solution of sodium hydroxide. Causes severe burns. May cause serious eye damage. Corrosive to living tissues. If swallowed, may cause perforation of the stomach and intestines; gastric lavage may be contraindicated. May cause swelling of the larynx with risk of suffocation. Contact Poisons Information Centre.

### Aggravated medical conditions:

None known.

## Section 5: Fire Fighting Measures

HAZCHEM Code: 2 R

Extinguishant: Water fog or fine water spray.

Risk of violent reaction or explosion: No.

Products of combustion: Water vapour, oxides of carbon, sodium oxide.

Protective Equipment: Full protective clothing including breathing apparatus and protective gloves.

## Section 6: Accidental Release Measures

### Emergency Procedures:

Dilute with a large excess of water.

### For large spills:

Contain spillage using sand or earth. Transfer both liquids and solids to suitable container. Treat residues as for small spillages.

### For small spills:

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to suitable container and arrange removal by disposals company.

## Section 7: Handling and Storage

### Precautions for safe handling:

Avoid contact with skin and eyes.  
Wear suitable gloves and eye/face protection.  
Keep away from acids, active metals, ammonium compounds, wood and wood products.

### Conditions for safe storage:

Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded dangerous goods store. Store in original container. Keep container tightly closed. Keep away from acids and acidic salts, aluminium, tin, zinc and galvanised iron, ammonium compounds. Do not store on structures of wood or wood products (e.g. particle-board). Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

### Incompatibles:

Acids, acidic salts, ammonium compounds, aluminium, tin, zinc, galvanised iron.

## Section 8: Exposure Controls/Personal Protection

### National Exposure Standards:

|                   |                  |                     |
|-------------------|------------------|---------------------|
| <b>ES-TWA:</b>    | Sodium hydroxide | 2 mg/m <sup>3</sup> |
| <b>ES-STEL:</b>   | None assigned.   |                     |
| <b>ES-PEAK:</b>   | Sodium hydroxide | 2 mg/m <sup>3</sup> |
| <b>Notations:</b> | None.            |                     |

*[Peak] indicates a ceiling concentration which should not be exceeded, even momentarily.*

**Biological Limit Values:** No data found.

### Engineering Controls:

Do not use aluminium, tin, zinc or galvanised iron, wood or wood products as materials of construction.  
Ensure adequate ventilation (same as outdoors) when using.  
If handling industrial quantities, or if aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible, and at least below the TLV.

### Personal Protective Equipment:

Avoid contact with skin and eyes. Do not breathe aerosols.  
Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

#### Normal Use:

Eye/face protection  
Gloves, rubber or plastic.

#### Industrial Quantities:

Face shield or safety glasses  
Gloves, rubber or plastic  
Plastic apron, sleeves and boots  
Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance: Clear, almost colourless, mobile liquid.  
Odour: Slight, sweet odour.  
pH: About 14; very alkaline.  
Vapour Pressure: 23 hPa @ 20 °C  
Vapour Density: No data.  
Boiling Point: > 100 °C  
Melting Point: No data.  
Volatiles: About 64 %  
Volatile Organic Compounds (VOC): Nil.  
Evaporation Rate: No data.  
Solubilities: Miscible with water in all proportions.  
Specific Gravity/Density: About 1.3 g/mL @ 20 °C  
Flash Point: None.  
Flammable Limits: None.  
Dust Explosion: Not applicable.  
Auto-ignition Temperature: No data.

### Other Information:

Highly alkaline. Will react violently with acids. May react vigorously or violently with acidic salts. Will absorb carbon dioxide from the air. Contact with ammonium salts may generate ammonia, a toxic gas. Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas. Will attack wood and wood products, such as particle board, masonite and cardboard. May attack glass on prolonged contact.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Incompatible materials.

**Incompatible Materials:** Acids, acidic salts, active metals (aluminium, tin, zinc), ammonium compounds, wood and wood products, glass.

**Hazardous Decomposition Products:** Oxides of sodium.

**Hazardous Reactions:** Will react violently with acids. Contact with active metals may generate hydrogen. Contact with ammonium compounds may generate ammonia.

## Section 11: Toxicological Information

### Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

|                 |   |   |
|-----------------|---|---|
| <b>Acute:</b>   | <b>Swallowed:</b>                                   | Corrosive. Causes severe burns to mouth, throat, stomach and intestines. May cause nausea, vomiting, abdominal pains, diarrhoea (occasionally bloody), fall in blood pressure, heart failure, coma and death. Damage may not become apparent for several days, but may still be fatal. May cause swelling of the larynx and subsequent suffocation. May cause perforation of the stomach and intestines, and, if not immediately fatal, stricture of the oesophagus may result. The sites of such scarring have been associated with formation of stomach cancer. |
|                 | <b>Skin:</b>  | Causes severe, deep burns and ulceration. Mists may cause a skin rash and/or small burns.   |
|                 | <b>Eyes:</b>  | Contact with eyes may rapidly cause severe damage to the tissues of the eye, redness, pain, blurred vision. May cause severe deep burns and permanent impairment of sight.  |
|                 | <b>Inhaled:</b>                                     | Aerosols may cause damage to the upper respiratory tract and lungs. Effects may range from mild irritation of the mucous membranes to severe pneumonitis (inflammation of lung tissues), and may include coughing, a burning sensation, laboured breathing, sneezing, sore throat and runny nose. Inhalation of aerosols may lead to pulmonary oedema (fluid build-up in the lungs), which may become fatal. Onset of symptoms may be delayed by several hours.   |
| <b>Chronic:</b> | Repeated light skin contact may lead to dermatitis. |   |
| <b>LD50:</b>    | Sodium hydroxide                                    | No data.  |
| <b>LDLo:</b>    | Sodium hydroxide                                    | 500 mg/kg oral, rabbit.   |

## Section 12: Ecological Information

|   |  |
|---|--|
| <b>Ecotoxicity:</b>                         | Harmful to aquatic organisms.                                      |
| <b>Persistence and degradability:</b>       | No data.   |
| <b>Mobility:</b>                            | Readily transported by water.                                      |
| <b>Environmental Fate:</b>                  | Slowly diluted and/or neutralised by reaction with organic matter. |
| <b>Bioaccumulative potential:</b>           | No potential for bioaccumulation.                                  |
| <b>Other adverse environmental effects:</b> | Local concentrations will be very harmful to aquatic organisms.    |

## Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

### Disposal methods and containers:

Avoid disposal to natural waters or the environment.  
May be flushed to sewer at extreme dilution with water.  
Use only plastic containers.

### Special precautions for landfill or incineration:

Not suitable for incineration.

## Section 14: Transport Information

**UN Number:** UN 1824

**UN Proper shipping name:** Sodium hydroxide solution 30 %

**Class and subsidiary risk:** 8 Corrosive.

**Packaging group:** II

**Special precautions for user:** Do not store or transport with dangerous goods of classes 1, 4.3, 5.1, 5.2, 7, foodstuff and foodstuff empties, acids, ammonium compounds. Dilute spillages.

**HAZCHEM Code:** 2 R

**Material for export:** Regulated.  
Refer to **IMO/IMDG** and **IATA/ICAO**.

## Section 15: Regulatory Information

**Poisons (SUSDP):** S6 Sodium hydroxide > 5 %

**Dangerous Goods:** Yes. UN 1824 8/II 2 R.

**Carcinogen:** **Australia** **IARC** **NTP** **RTECS**  
No. No. No. No.

**Agricultural and Veterinary Chemicals Act:**  
This product is registered with the Australian Pesticides and Veterinary Medicines Authority (**APVMA**).

**Australian Inventory of Chemical Substances (AICS):** Listed.

**Other National/International Regulations:** No data found.

## Section 16: Other information

**Date of MSDS update:** September 2009  
Complete review and re-write of all sections.

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
ACGIH - American Conference of Governmental Industrial Hygienists.  
MAK - Maximum workplace concentration - Germany,  
(*maximale Arbeitsplatzkonzentration*)  
IARC - International Agency for Research on Cancer (France).  
NTP - National Toxicology Program (USA).  
RTECS - Registry of Toxic Effects of Chemical Substances.

**Literature references:**

**Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [10005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*