

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 25.08.2014

Revision: 25.08.2014

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: REV-WASH**Other Name:** Sodium hydroxide mixture in water**Recommended Use of the Chemical and Restriction on Use:** Alkali detergent**Details of Manufacturer or Importer:**

DASCO Pty Ltd
 24 - 26 Helen Street
 Heidelberg Heights VIC 3081

Phone Number: (03) 9459 7004**Emergency telephone number:** 13 11 26 (Poisons Information Centre)

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Label Elements**Signal Word** Danger**Hazard Statements**

H314 Causes severe skin burns and eye damage.

Precautionary Statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash hands thoroughly after handling.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321 Specific treatment (see on this label).
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P363 Wash contaminated clothing before reuse.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P310 Immediately call a POISON CENTER/doctor.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

1310-73-2	Sodium hydroxide (Na(OH))	 Skin Corr. 1A, H314	30%
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4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Information for Doctor**Symptoms Caused by Exposure:**

Inhalation: May cause irritation of the mucous membranes, coughing, burning sensations, laboured breathing, sneezing, sore throat and runny nose.

Ingestion: May cause severe burns to the mouth, throat, stomach and intestines, nausea, vomiting, abdominal pains, occasionally bloody diarrhoea, drop in blood pressure, heart failure, coma and death.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine water spray.

Specific Hazards Arising from the Chemical:

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.

Hazardous combustion products include oxides of carbon and sodium.

Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close

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proximity to points of potential exposure.

Conditions for Safe Storage:

Store in original container in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from physical damage and direct sunlight. Store away from acids, acidic salts, ammonium compounds, aluminium, tin, zinc and galvanised iron. Do not store on structures of wood or wood products (e.g. particle board) or glass.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:**1310-73-2 Sodium hydroxide (Na(OH))**

NES	TWA: 2 mg/m ³ Peak limitation: 2 mg/m ³
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Engineering Controls:

Ensure adequate ventilation of the workplace. If handling industrial quantities, or if aerosol risk exists, provide exhaust ventilation or other engineering controls to keep the airborne concentrations as low as possible, at least below occupational exposure standards.

Personal Protective Equipment (PPE):**Respiratory Protection:**

Use a Safe Work Australia approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Rubber or plastic gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Impervious overalls, plastic apron, sleeves and boots should be worn when handling industrial quantities. See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Mobile liquid
Colour:	Clear, almost colourless
Odour:	Slight, sweet odour
Odour Threshold:	No information available
pH-Value:	About 14 (very alkaline)
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	> 100 °C
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure at 20 °C:	23 hPa

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Density:	No information available
Relative Density at 20 °C:	About 1.3 g/mL
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible in all proportions
Partition Coefficient (n-octanol/water):	No information available
% Volatiles by Volume:	About 64 %
VOC:	Nil

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Highly alkaline solution - will react violently with acids. May react vigorously or violently with acidic salts. Contact with active metals such as aluminium, tin or zinc may generate flammable hydrogen gas. Contact with ammonium salts may generate ammonia, a toxic gas. Will attack wood and wood products, such as particle board, masonite and cardboard. May attack glass on prolonged contact.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Direct sunlight.

Incompatible Materials:

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

Hazardous Decomposition Products: Oxides of sodium.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

1310-73-2 Sodium hydroxide (Na(OH))

Oral	LDLo	500 mg/kg (rabbit)
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Acute Health Effects

Inhalation:

May cause irritation of the mucous membranes, coughing, burning sensations, laboured breathing, sneezing, sore throat and runny nose. Inhalation of aerosols may cause pulmonary oedema (fluid build up in the lungs), which may become fatal. Onset of symptoms may be delayed by several hours.

Skin: Causes severe, deep burns and ulceration.

Eye:

Contact with eyes may rapidly cause severe damage to the tissues of the eye, redness, pain and blurred vision. May cause severe deep burns and permanent impairment of sight.

Ingestion:

May cause severe burns to the mouth, throat, stomach and intestines, nausea, vomiting, abdominal pains, occasionally bloody diarrhoea, drop 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.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

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Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: Repeated light skin contact may lead to dermatitis.

Existing Conditions Aggravated by Exposure: No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity:

No information available

Harmful to aquatic organisms.

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number	1824
Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
Dangerous Goods Class	8
Packing Group:	II
EMS Number:	FA-SB
Hazchem Code:	2R
Special Provisions:	Not applicable
Limited Quantities:	1L
Packagings & IBCs - Packing Instruction:	P001, IBC02
Packagings & IBCs - Special Packing Provisions:	Not applicable
Portable Tanks & Bulk Containers - Instructions:	T7
Portable Tanks & Bulk Containers - Special Provisions:	TP2

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15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:	
1310-73-2	Sodium hydroxide (Na(OH))
7732-18-5	Water

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16 . OTHER INFORMATION

Creation Date: 25.08.2014**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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