

MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Redback Degreaser

Recommended Use: Degreasing solution used in the automotive industry.

Supplier: Auto Klene Solutions
ABN: 51 417 164 855
Street Address: 1/83 Merrindale Drive
Croydon, Victoria
Australia
Phone Number: +61 3 8761 1900
Facsimile: +61 3 8761 1955
24 Hour Emergency: Poisons Information Centre 131 126

2. HAZARDS IDENTIFICATION

This material is Hazardous according to criteria of NOHSC; HAZARDOUS SUBSTANCE.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN Number: 1719
DG Class: 8
Packaging Group: III
Hazchem Code: 2R

Risk Phrases: **R31** Contact with acids liberates toxic gas.
R34 Causes Burns

Safety Phrases: **S24/25** Avoid contact with skin and eyes.
S37/39 Wear suitable gloves and face protection.

Poisons Schedule: S5.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components/CAS Number	Proportion	Risk Phrases
Phosphate builder / 7758-29-4	0-10%	
Hydrotope – non hazardous	0-10%	
Surfactant blend (proprietary non-hazardous)	0-10%	
Ethylene glycol monobutylether / 111-76-2	0-10%	
Sodium hydroxide / 1310-73-2	0-5%	
Water / 7732-18-5	Balance	
Dye	Trace	

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4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766)

- Inhalation:** If fumes or combustion products are inhaled, remove from contaminated area. Avoid becoming a victim. Employ artificial respiration if indicated.
- Skin Contact:** Wash affected parts continuously with copious amounts of running water for at least one minute. If irritation occurs seek medical advice. Remove contaminated clothing and wash before re-use.
- Eye Contact:** Immediately irrigate continuously by holding the eyes open and washing with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by lifting the upper and lower lids. Irrigate for at least 15 minutes. Seek medical advice.
- Ingestion:** Give water to drink. DO NOT induce vomiting. If vomiting occurs give further water to achieve effective dilution. Seek medical advice.
- Medical attention:** Consult Poisons Information Centre.

5. FIRE FIGHTING MEASURES

- Hazards from combustion Products:** Non-combustible. Not considered to be a significant fire risk. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violet rupture of containers.
- Precautions for fire fighters and Special protective equipment:** Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
- Hazchem Code:** 2R

6. ACCIDENTAL RELEASE MEASURES

- Emergency procedures:** If contamination of sewers or waterways has occurred advise local emergency services.
- Methods and materials for Containment and clean up:** Clear area of all personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact by using protective equipment as required. Prevent spillage from entering drains and waterways. Collect recoverable product into labeled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent run off into drains or waterways.

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7. HANDLING AND STORAGE

Conditions for safe storage: Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from acids and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storing and handling recommendations.

Proper Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S. - (Contains Sodium Hydroxide)
EPG Number: 8A1
TERG Number: 37
Packaging Method: 3.8.8RT8

Precautions for safe handling: Ensure the appropriate personal protective equipment is used when handling this material. Wash thoroughly after handling. Avoid breathing vapour, spray or mists.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS

TLV,0.2mg/m³ ceiling (ACGIH) (as Sodium Hydroxide)

Exposure Standard (TWA) is the time weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

*C = Ceiling Value - Is the concentration that should not be exceeded even instantaneously.

EXPOSURE CONTROLS

N Av

PERSONAL PROTECTION

EYE

- Safety glasses with side shields.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

Wear chemical protective gloves, eg. PVC.

OTHER

- Overalls.
- Barrier cream.
- Eyewash unit.

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The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information consult your Occupational Health and Safety Advisor.

ENGINEERING CONTROLS

Avoid generation and inhalation of mists or aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Clear orange/brown
Odour:	N Av
Solubility:	Mixes with water
Specific Gravity:	1.065 @ 20°C
Relative Vapour Density (air= 1):	N Av
Vapour Pressure (20°C):	18 mm Hg
Flash Point (°C):	Non Flammable
Flammability Limits (%):	N App
Autoignition Temperature (°C):	N Av
% Volatile by Weight:	N Av
Solubility in water (g/L):	N Av
Melting Point/Range (°C):	0 approx
Boiling Point/Range (°C):	100 approx
Decomposition Point (°C):	N Av
pH:	Neat 13.0 ± 0.1 1% soln 12.0 ± 0.1
Viscosity:	N Av
Evaporation Rate:	N Av

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal use conditions.
Conditions to avoid:	Avoid contact with foodstuffs.
Incompatible materials:	N Av
Hazardous decomposition Products:	N Av
Hazardous reactions:	Avoid contact with strong acid. The solution in water is a strong base, it reacts violently with acid and is corrosive. Attacks any metal in presence of water.

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11. TOXICOLOGICAL INFORMATION

- Ingestion:** May be harmful if swallowed. May cause irritation to mouth, throat and stomach. Ingestion can result in nausea, vomiting, diarrhea, abdominal pain, and/or convulsions.
- Eye contact:** Harmful to the eyes. Permanent eye damage may occur. Can cause corneal burns.
- Skin contact:** Corrosive to skin, may cause burns. Will have a defatting effect on the skin.
- Inhalation:** Not considered a feature of normal use.
- Long Term Effects:** Non known.
- Toxicological Data:** as Sodium Hydroxide
Oral Lowest Lethal Dose (Rabbit): 375mg/kg
LD50 Mouse: 150 mg/kg
Skin: Human : 150 mg/24 hour : severe
Skin: Rabbit : 150 mg/24 hour : severe

12. ECOLOGICAL INFORMATION

- Ecotoxicity:** No particular hazard to the environment.

13. DISPOSAL CONSIDERATIONS

- Minor spills:** Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable labeled container for waste disposal. Neutralise waste water with dilute acid to a pH range of 6-10.
- Disposal:** Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Treat and neutralise at an effluent treatment plant. Use soda ash or slaked lime to neutralise. Recycle containers wherever possible; otherwise dispose of in an authorised landfill.

14. TRANSPORT INFORMATION

- Transport Information:** Do not use aluminium or galvanized containers. Steel or plastic containers suitable. Keep containers securely sealed and protected against physical damage. Ensure containers are clearly labelled. Store away from acids.
- Proper Shipping Name:** CAUSTIC ALKALI LIQUID, N.O.S. - (Contains Alkaline Salts)
- UN Number:** 1719
DG Class: 8
Packaging Group: III
Hazchem Code: 2R
EPG Number: 8A1
IERG Number: 37

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15. REGULATORY INFORMATION

Classification: This material is Hazardous according to criteria of NOHSC; HAZARDOUS SUBSTANCE.

Poisons Schedule: S5.

16. OTHER INFORMATION

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Auto Klene cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.