
Section 1 - Identification of Chemical Product and Company

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Substances : Blend of acidic ingredients and surfactant
Trade Name: **Aluminium Brightener**
Product Use: Mag wheel cleaner and Aluminium brightener emulsion.
Creation Date: **July, 2005**
Revision Date: **January, 2009**

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Hazardous according to the criteria of NOHSC Australia.

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

Dangerous goods code : 8 corrosive substances.

Risk Phrases: R34, R41. Causes burns. Risk of serious damage to eyes.

Safety Phrases: S20, S26, S28, S36, S46, S1/2, S37/39. When using, do not eat or drink. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing. If swallowed, contact a doctor or Poisons Information Centre immediately and show this container or label. Keep locked up and out of reach of children. Wear suitable gloves and eye/face protection.

Sub risk class: non allocated

ADG Classification: Class 8 (CAUSTIC ALKALI LIQUID, N.O.S.)

UN Number: 1760

Hazchem code: 2x

Emergency Overview

Physical Description & Colour: clear liquid. **Odour:** Mild odour.

Major Health Hazards: causes burns, may cause serious damage to eyes.

Potential Health Effects

Inhalation

Short Term Exposure: Data suggests that this product is toxic if inhaled problems extended or major exposure may lead to severe consequences including death.

Long Term Exposure: Extended or major exposure may lead to severe consequences including death.

Skin Contact:

Short Term Exposure: Available data indicates that this product is likely to be absorbed through the skin and be toxic by skin absorption.

Long Term Exposure: Major skin exposure may lead to serious health problems and even death if not treated promptly .This product is also corrosive to skin .It will cause effects such as severe itchiness ,blistering and skin reddening and death of skin tissues. Exposure may lead to permanent damage including scarring.

Eye Contact:

Short Term Exposure: this product is corrosive to the eyes. It will quickly cause intense discomfort such as severe pain, copious watering and redness of the eyes unless quickly treated, corrosive effects leading to permanent corneal damage, even blindness will occur.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion: data suggests that this product is toxic if swallowed. Ingestion of small quantities may cause harm and large quantities may lead to death. This product is also corrosive to the gastrointestinal tract. Will cause burning to the mouth and throat, possible irreversible problems, even death unless treated promptly

Short Term Exposure:Data suggest.

MATERIAL SAFETY DATA SHEET

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

NOHSC: No significant ingredient is classified as carcinogenic by NOHSC.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Sulphuric acid	7664-93-9	3-6	1	3
Nitric acid	7697-37-2	3-6	5.2	10
Other non hazardous ingredients	secret	10-20 approx	not set	not set
Water	7732-18-5	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call. Obtain a supply of calcium gluconate gel and leave it in a near by unlocked medicine cabinet. Eye baths or eye wash station and safety deluge showers should be provided where this product is being used.

Swallowed: if swallowed DO NOT induce vomiting. Wash mouth with water and give a glass of water to drink.

Eyes: if this product comes into contact with eyes, hold open and wash with running water. DO NOT try to remove contact lenses unless trained. Seek immediate medical attention.

Skin: if product gets on skin immediately remove contaminated clothing and wash skin with soap and running water to remove product from skin immediately apply calcium gluconate gel to affected skin seek medical attention if safety shower is available use it promptly. Because of the toxicity of this product speed may save a life.

Inhalation: remove from contaminated area. Apply artificial respiration if not breathing.

Advice to doctor: Treat symptomatically and note the treatment of this product.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Extinguishing Media: Not Combustible.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Special fire fighting procedures: immediately evacuate the area of unnecessary personnel. When fighting fires involving this product wear safety boots, non flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered ensure that no spillage enters drains or water courses.

Unusual fire fighting & explosion hazards: fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces likely to decompose only after heating to dryness followed by further strong heating.

Stability: this product is unlikely to spontaneously decompose

Polymerisation: this product is unlikely to spontaneously decompose

MATERIAL SAFETY DATA SHEET

Decomposition Products: carbon dioxide and if combustion is incomplete carbon monoxide and smokes. Oxides of sulphur. Water.

Materials to avoid: bases

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self contained breathing apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, Viton, Nitrile, butyl rubber, Barricade, neoprene, Teflon, polyethylene, PE/EVAL, Saranex, Responder. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Because of the corrosiveness of this product, special personal care should be taken in any cleanup operation. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services.

Contaminated area may be neutralised by washing with water or dilute alkali. may be suitable. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage & transport

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is classed as UN1760, Dangerous goods Class 8 Corrosive Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 6 (Toxic Substances where the Toxic Substances are cyanides and the Corrosives are acids), 7 (Radioactive Substances), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Poisonous Gases), 3 (Flammable liquids), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 6 (Toxic Substances except where the Toxic Substances are cyanides and the Corrosives are acids) and 9 (Miscellaneous Dangerous Goods).

This product is a Scheduled Poison S7 Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in a cool, well ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. If you keep more than 1000kg or 1000L of Corrosive Substances of Packaging Group III, you are probably required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Risk phrases are R34,R41,R23/24/25.Cause burns .Risk of serious damage to eyes.Toxic by inhalation incontact with skin and if swallowed.

Exposure Standards:

A time weighted average (TWA) has been established for Hydrogen fluoride present in significant quantities in this product .This value is 2.6mg/m3.The corresponding STEL level is %peak+.The STEL (short term exposure limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL .The exposure value at the TWA is the average is airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week .See ingredients section on page 1 of data sheet. The term %peak+is used when the TWA limit, because of the rapid action of the substances, should never be exceeded even briefly.

MATERIAL SAFETY DATA SHEET

Engineering Controls:

In industrial situation, concentration value below the TWA value should be maintained. Value may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentration of mists, dust or vapour are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection:

Protective Gloves: Impermeable protective gloves must be worn when you are using this product. Failure to do so will lead to burns to the skin, and likely scarring. All skin areas must be covered when you are using this product. Glove selection can be made on the basis of the following resistance for sodium hydroxide based products.

Neoprene: Excellent, Rubber excellent nitrile; excellent Butyl: excellent. for help in selecting equipment consult AS 2161.

Eye Protection: Your eyes must be completely protected from this product. All surrounding skin areas must be covered. Eye contact will prove at best painful and will probably cause irreversible damage if contact is other than brief. Consult AS1336 and AS/NZS1337 for advice on industrial eye protection. Emergency eye wash facilities must also be available in an area close to where this product is being used.

Skin Protection: Because of the dangerous nature of this product, make sure that all skin areas are completely covered by impermeable gloves, overalls, hair covering, and apron and face shield. See below for suitable material types.

Clothing Protective Material Types: Clean impermeable overalls or protective clothing should be worn, preferably with an apron. If contaminated, laundry should be advised of the nature of the contamination, or, preferably, clothing should be destroyed. Consult AS2919 for advice on industrial clothing.

Respirator: Because of the danger of this product to the respiratory system, it should only be used when the user is equipped with full respiratory equipment, unless used in a fume cupboard or other positively ventilated area designed for the protection of users. For help selecting suitable equipment, consult AS/NZS1715

Safety Boots: Wearing safety boots in industrial situation is advisory. Consult AS/NZS2210 for advice on occupational protective footwear.

Always wash hand before smoking; eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear liquid.
Odour:	Sharp but mild odour.
Boiling Point Vapour Pressure.	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Approximately 0°C.
Volatiles:	Water component.
Vapour Density:	No data.
Specific Gravity:	No data.
Water Solubility:	Completely soluble.
pH:	Corrosive
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water Distribution:	No data
Autoignition temp:	Not applicable - does not burn.
Corrosiveness :	corrosive to human tissues and to many metals

Section 10 - Stability and Reactivity

Conditions to Avoid: Handle and open containers carefully.

Incompatibilities: Bases

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

MATERIAL SAFETY DATA SHEET

Section 12 - Ecological Information

Insufficient data to be sure of status.

Section 13 - Disposal Considerations

Disposal: Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site. Please do NOT dispose into sewers or waterways.

Section 14 - Transport Information

Hazchem Code: 2x**Dangerous Goods Class:** Class 8, Corrosive Substances. **Packaging Group:** III

Class 8 Corrosive Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 6 (Toxic Substances where the Toxic Substances are cyanides and the Corrosives are acids), 7 (Radioactive Substances), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Poisonous Gases), 3 (Flammable liquids), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 6 (Toxic Substances except where the Toxic Substances are cyanides and the Corrosives are acids) and 9 (Miscellaneous Dangerous Goods).

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health and Safety Commission
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product. This MSDS is prepared in accord with the NOHSC document %National Code of Practice for the Preparation of Material Safety Data Sheets+2nd Edition [NOHSC:2011(2003)]

MATERIAL SAFETY DATA SHEET