

SAFETY DATA SHEET

Hazardous according to the criteria of NOHSC.

Section 1: Product and Company Identification:



Rust Remover

Acidic Rust Stain Remover

Cleaning Systems Ltd
659 Great South Road
Penrose, Auckland, 1061
New Zealand

Phone: (09)579 4114
E-Mail: www.cleaningsystems.co.nz

For 24hr Emergency Advice: Call the National Poisons & Hazardous Chemical Information Centre (03) 474-7000 or Emergency Services dial 111

Date of MSDS Preparation: 1 January 2012

Section 2: Hazard Identification

HAZARDOUS SUBSTANCE ACCORDING TO THE CRITERIA OF NOHSC
NON DANGEROUS GOODS ACCORDING TO THE Australian Dangerous Goods Code

Product Name: Rust Remover
Product Code: -
Risk Phrase: R34 Causes burns
R22 Harmful if swallowed
Safety Phrases: S(1/2) Keep locked up and out of reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear chemical resistant gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately and show this MSDS.

Section 3: Composition and Information on Ingredients

INGREDIENTS

All hazardous substances as defined by the NOHSC code 1008 are listed by chemical name and CAS No. Other ingredients which are determined to be non-hazardous are listed by generic name or as "other ingredients determined not to be hazardous."

CHEMICAL NAME	CAS No.	PROPORTION
Fluoride Ions	1341-49-7	<10%
Acid blend	proprietary	10-<30%
Other ingredients determined not to be hazardous		>60%

Section 4: First Aid

Swallowed: If poisoning occurs, immediately contact a doctor or a Poisons Information Centre Tel 0800 764 766. Do NOT induce vomiting. Give 3 glasses of water.

Eyes: In case of contact with eyes, flush immediately under running water (ensure eyelids are held open) for 15 minutes or until told to stop by a doctor or Poisons Information Centre. Get immediate medical attention.

Skin: Remove contaminated clothing immediately and wash skin thoroughly with soap and water. Apply calcium gluconate gel. Seek medical advice.

Inhaled: Remove from contaminated area. Apply artificial respiration if not breathing.

First Aid Facilities: Normal washroom facilities.

Advice to doctor: Treat symptomatically. Immediate dilution with water beneficial.

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Section 5: Fire Fighting Measures

- Flammability:** Not flammable or combustible.
- Fire/Explosion Hazard:** Use dry chemical, foam or water fog. Wear full body protective clothing with self-contained breathing apparatus (SCBA) and protective gloves. Prevent by any means available to prevent any spillage entering a watercourse.
- Hazardous Combustion Products:** None known

Section 6: Accidental Release Measures

- Spills and Disposals:** **Large Spills** - Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labeled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
- Small Spills** – Flush away with copious amounts of water.
- Personal Protective Equipment:** Refer to Section 8 of this MSDS for PPE required.

Section 7: Safe Handling Information

- Storage & Transport:** Store in a cool place and out of direct sunlight. Store away from strong alkalis and oxidizing agents. Store away from possible contact with non-ferrous metals. Keep container sealed when not in use. Store locked up and out of reach of children. Only store in the original container as supplied by the manufacturer.
- Handling:** Always use recommended Personal Protective Equipment (see section 8 of this MSDS). Do not mix with any other chemical unless expressly recommended by the manufacturer.

Section 8: Exposure Controls and Personal Protection

- Exposure Standards:** No exposure standards have been assigned to this product.
- Engineering Controls:** Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.
- Personal Protection Equipment:**
- Gloves – Wear chemical resistant protective gloves.
 - Goggles – Use chemical goggles when using or handling product.
 - Respiratory Protection – Not normally required. If used in confined spaces, select and use respirators in accordance with AS/NZS 1715/1716. The use of half-face P1 (dust/mist)respirator with replaceable filters is recommended.

Section 9: Physical and Chemical Properties

- Appearance:** Clear liquid with mild acidic odour
- Boiling Point:** 100°C
- Vapour Pressure:** Not available
- Specific Gravity:** 1.00
- Flashpoint:** Not flammable
- Flammability Limits:** Not flammable
- Solubility in Water:** Completely soluble
- OTHER PROPERTIES**
- Corrosiveness:** Corrosive to carbon steel, galvanized metal and aluminium.
- Reactivity:** Will react with alkalis and oxidizing agents.
- pH:** 1.0 – 2.0

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Section 10: Stability and Reactivity

Stability:	Stable under normal conditions of use.
Hazardous Decomposition Products:	Decomposes on heating emitting poisonous and corrosive gases of ammonia and hydrogen fluoride.
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Strong alkalis and oxidizing agents.
Conditions to avoid:	Incompatibilities and excessive heat.

Section 11: Toxicological Information

HEALTH EFFECTS

ACUTE

Swallowed:	Will cause severe irritation and possibly burns to mouth, throat and stomach with effects including mucous build-up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhea. If large quantities are swallowed burns may result to the mouth, throat and stomach.
Eye:	Will cause severe irritation to the eyes with effects including: tearing, pain, and possible blindness.
Skin:	May cause severe irritation to the skin, with effects including; redness, itching and drying/defatting.
Inhaled:	Mists from the product may cause irritation to the nose, throat and respiratory system with effects including; coughing, discomfort, breathing difficulty and shortness of breath.

CHRONIC	Prolonged or repeated skin contact may lead to dermatitis. Prolonged or unattended eye contact may result in permanent eye damage or/and blindness.
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Toxicological Information: There is no toxicological information for the product **Rust Remover**. However for the ingredient : **Ammonium Bifluoride**
Oral LD50 (rat): 130mg/kg

Section 12: Ecological Information

Ecological Information: There is no ecological information for the product **Rust Remover**.

Section 13: Disposal Considerations

Disposal Methods:	Recycle all plastic containers using suitable local council recycling facilities. Rinse out the container with clear water. Avoid tipping product directly into the sewer system.
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Section 14: Transport Information

Rust Remover is not classified as a Dangerous Good for transport or storage.

UN Number:	Not allocated
Dangerous Goods Class and Subsidiary Risk:	Not allocated
Proper Shipping Name:	Not allocated
Hazchem Code:	Not allocated
Poisons Schedule No:	Schedule 6

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Section 15: Regulatory Information

Hazard Category: C: Corrosive

Poisons Scheduling: Schedule 6

Standard Statements

- A For advice, contact a Poisons Information Centre (Tel 0800 764 766) or a doctor.
 G3 If swallowed do NOT induce vomiting.
 E2 If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (tel 131 126) or a doctor or for at least 15 minutes.
 S5 If skin or hair contact occurs, immediately remove contaminated clothing. Flush skin under running water for 15 minutes. Then apply calcium gluconate gel. Contact a Poisons Information Centre 0800 764 766.

Warning Statements

- 1 Highly corrosive
 17 Contact with eyes even for short periods can cause blindness
 93 Causes severe burns which are not likely to be immediately painful or visible.

Safety Statements

- | | | | |
|----|---|----|--|
| 1 | Avoid contact with eyes. | 3 | Wear eye protection when mixing or using |
| 4 | Avoid contact with skin. | 5 | Wear protective gloves when mixing or using. |
| 8 | Avoid breathing vapour. | 29 | Obtain a supply of calcium gluconate gel. |
| 35 | Wash gloves thoroughly immediately after use. | | |

Section 16: Other Information

Contact Point: Poisons Information Centre Tel 0800 764 766

Last MSDS Revision: 1 January 2012

Sources:

- National Code of Practice for the Preparation of Material Safety Data Sheet 2nd Edition [NOHSC: 2011(2003)]
- National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC:1015(2001)]
- Hazardous Substances Information System Data Base 26 July 2011
- Australian Dangerous Goods Code 6th Edition
- Standard for the Uniform Scheduling of Medicines and Poisons No.2 August 2011

Abbreviations:

ppm	-	parts per million
TLV	-	Threshold Limit Value
mmHG	-	millimetres of Mercury (Hg) – this is a unit of pressure
CAS No.	-	Chemical Abstracts Service Registry Number
TWA	-	Time Weighted Average
STEL	-	Short Term Exposure Limit
PEL	-	Permissible Exposure Limit.
< & >	-	< Less Than > Greater Than
UN	-	United Nations
AICS	-	Australian Inventory of Chemical Substances
LC50	-	Lethal Concentration. LC50 is the concentration of a material in air which causes death of 50% (one half) of a group of test animals.
LD50	-	Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Note: This Material Safety Data Sheet has been compiled in accordance with the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]

DISCLAIMER:

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