

**SAFETY DATA SHEET****SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

- **Product (material) name:** Rust Remover
- **Other names:** N/A
- **Recommended use:** Organic acid cleaner
- **Supplier:** Clearchoice Products Pty Ltd , NSW , 2044
- **Tel:** 02 9557 0111
- **Emergency:** Contact Poisons Info Centre 131 126 or Manufacturer

**SECTION 2: HAZARDS IDENTIFICATION**

- **Classification of the substance or mixture:**  
Ingredients in formulation are classified as hazardous according to the criteria of the GHS.
- **Pictograms**



- **Signal word:** Danger
- **Hazard statement(s):**  
H302: Harmful if swallowed  
H314: Causes severe burns and eye damage  
H332: Harmful if inhaled
- **Precautionary statement(s):**  
260 - Do not breathe mist, vapours, spray  
P264 - Wash exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear protective gloves, protective clothing, eye protection, face protection  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P363 - Wash contaminated clothing before reuse  
P405 - Store locked up  
P501 - Dispose of contents/container to comply with local, state and federal regulations

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****MIXTURE:**

Chemical name	CAS No.	% product
Ammonium Bifluoride	1341-49-7	4
Phosphoric acid	7664-38-2	33
Non hazardous surfactant	secret	1-5
Water	7732-18-5	to 100

This is a commercial product and the exact ratio of ingredients may vary slightly and trace quantities of impurities are also possible.

**SECTION 4: FIRST AID MEASURES**

<b>General information</b>	Obtain a supply of calcium gluconate gel and leave it in a nearby unlocked medicine cabinet. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 1126 from anywhere in Australia.
<b>Eyes:</b>	If this product comes into contact with eyes, hold open and flood with water for at least 15 minutes. Do not try to remove contact lenses unless trained. Seek immediate medical attention.
<b>Inhalation:</b>	Remove from contaminated area. Apply artificial respiration if not breathing.
<b>Skin:</b>	If skin contact occurs, remove contaminated clothing and wash skin thoroughly. Immediately apply calcium gluconate gel to affected skin. Seek immediate medical attention. If safety shower is available, use it promptly. If you have the time and resources, see if you can neutralise the corrosive medium, especially if on face, in eyes or in/on other sensitive areas.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting. Give a glass of water.
<b>Advice for doctor</b>	Treat symptomatically. Note the nature of this product.

**SECTION 5: FIRE FIGHTING MEASURES**

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

**Flashpoint:** Does not burn.

**Flammability limits:** Not applicable. This product does not burn.

**Extinguishing Media:** This product does not burn. Use extinguishing media suited to the materials that are burning. water fog. Water fog or fine spray is the preferred medium for large fires.

**Special Fire Fighting procedures:** If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of 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 & Explosion Hazards:** Likely to decompose only after heating to dryness followed by further strong heating.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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 face mask, face shield, gauntlets and self contained breathing apparatus. See above under Personal Protection regarding Australian Standards relating to personal protective equipment. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. 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 weak or dilute alkali.

**SECTION 7: HANDLING AND STORAGE**

This product is classed as UN2922, Dangerous Goods Class 8 Corrosive Substances. Proper Shipping name is CORROSIVE LIQUID, TOXIC, N.O.S. 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).

Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****□ National exposure standards:**

<b>Chemical</b>	<b>TWA (mg/m<sup>3</sup>)</b>	<b>STEL (mg/m<sup>3</sup>)</b>
Phosphoric acid	1	3
Hydrofluoric acid	2.6	-

**□ Engineering controls:**

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

**□ Personal protective equipment:**

**Respiratory Protection:** 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 in selecting suitable equipment, consult AS/NZS 1715.

**Protective Gloves:** Impermeable protective gloves must be worn when you are using this product. Failure to do so will quickly lead to third degree burns to contacted areas, and serious scarring. All skin areas must be covered. Glove selection can be made on the basis of the following resistance for Inorganic acids based products. Neoprene: good. Rubber: good. Nitrile: good. Butyl: good. For help in selecting suitable equipment, consult AS 2161.

**Eye Protection:** Protective eyewear must be worn when using this product. Coverage should extend to all facial areas. Eye contact will prove at best painful and will almost always cause irreversible damage and blindness, as well as scarring of face and other contacted tissues. Consult AS1336 and AS/NZS 1337 for advice on Industrial Eye Protection.

**Clothing:** Clean impermeable overalls or protective clothing should always be worn when handling this product, 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.

**Safety Boots:** Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.

Always wash hands 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

<b>Appearance &amp; Odour:</b>	Pink liquid. Sharp acidic odour.
<b>Melting/softening point:</b>	Approximately 0°C.
<b>Boiling point and vapour pressure:</b>	Approximately 100°C at 100kPa.
<b>Volatile materials:</b>	Water component.
<b>Flashpoint:</b>	Does not burn.
<b>Specific gravity:</b>	1.31
<b>Solubility in water:</b>	Completely soluble.
<b>pH:</b>	Approx.. 1.0

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** This product is unlikely to spontaneously decompose.

**Polymerisation:** This product is unlikely to spontaneously polymerise.

**Decomposition Products:** No significant quantities of decomposition products are expected at temperatures normally achieved in a fire.

**Materials to avoid:** Contact with some metals may liberate hydrogen gas, which forms explosive mixtures in air.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Health Effects:**

No specific data is available for the product for chronic exposure symptoms.

**Acute Effects:****Swallowed:**

Data suggests that this product is harmful if swallowed. Ingestion of larger quantities will be fatal and may lead to death. This product is also very corrosive to the gastrointestinal tract. Will cause burning to mouth and throat very quickly and will rapidly lead to death unless treated promptly.

**Eye:**

This product is very corrosive to the eyes. It will quickly cause severe pain, and corrosion of the eye and surrounding facial tissues. Unless exposure is quickly treated, permanent blindness and facial scarring will occur.

**Skin:**

This product is very corrosive to skin. Even brief exposure will rapidly cause permanent effects such as corrosion of and death to skin and underlying tissues, leading to severe scarring. If extensive exposure is prolonged or not quickly treated, it is likely to lead to death.

**Inhalation:**

Data suggests that this product is toxic if inhaled. Brief or minor exposure may lead to health problems. Extended or major exposure may lead to severe consequences including death.

**SECTION 12: ECOLOGICAL INFORMATION**

Not expected to cause harm to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

This material may be suitable for approved landfill. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

**SECTION 14: TRANSPORT INFORMATION**

<input type="checkbox"/> <b>UN Number</b>	2922
<input type="checkbox"/> <b>UN Proper Shipping Name</b>	Corrosive liquid, toxic, n.o.s
<input type="checkbox"/> <b>Class and subsidiary risk</b>	8 – corrosive substances, 6.1 toxic substances
<input type="checkbox"/> <b>Packing Group</b>	II
<input type="checkbox"/> <b>Hazchem Code</b>	2XE

**SECTION 15 REGULATORY INFORMATION**

All ingredients are listed on the AICS.

- Ammonium bifluoride is listed in schedule 6 of the SUSMP. Schedule 6 chemicals are substances with a moderate potential for causing harm, the extent of which can be reduced through the use of distinctive packaging with strong warnings and safety directions on the label.
- Phosphoric acid is listed in schedule 5 of the SUSMP

Schedule 5 chemicals are substances with a low potential for causing harm, the extent of which can be reduced through the use of appropriate packaging with simple warnings and safety directions on the label.

## SECTION 16 OTHER INFORMATION

□ **Date of preparation or last revision of the SDS** DECEMBER 2016

### Acronyms:

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>ASCC</b>	Office of the Australian Safety and Compensation Council
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>GHS</b>	Globally Harmonised System of Classification and Labelling
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>STEL</b>	Short term exposure limit
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons
<b>TWA</b>	Time weighted average
<b>UN Number</b>	United Nations Number

### Disclaimer:

A) This SDS 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. The information is meant to describe Safety Requirements of the product and should not be construed as guaranteeing specific properties. This MSDS is analogous to the data for the principal components of the mixture/compound. No warranty, express or implied, is made as to its accuracy, reliability or completeness.

B) Each user should read this MSDS, all product labels, and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

C) We can not accept any liability for any damage or injury caused by the product as it is sold and its use, handling and storage are completely out of our control.