

**Material Safety Data Sheet****1. IDENTIFICATION OF MATERIAL AND SUPPLIER**

**PRODUCT NAME:** RUST REMOVER **PRODUCT CODE:** F/WAY-12  
**Synonyms:** None  
**Recommended use:** A rust remover for fibres and fabrics. May also be effective on some hard surfaces.  
**Supplier:** Bennett Direct  
**ABN:** 53 606 345 548  
**Street Address:** 23-27 Shepherd St, MARRICKVILLE NSW 2204  
**Telephone:** 1300 310 410 **Facsimile:** +612 9572 6565  
**Emergency telephone number:**  
**POISONS INFORMATION CENTRE AUSTRALIA - Ph: 131 126 NEW ZEALAND - Ph: 0800 764 766**

**2. HAZARDS IDENTIFICATION**

Hazardous according to criteria of the Australian Safety & Compensation Council (ASCC), formerly (NOHSC).  
 Classified by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

**RISK: CORROSIVE - TOXIC**

**Risk-phrases:**

**R34** - Causes burns. **R22** - Harmful if swallowed.

**Safety-phrases:**

**S1/2** - 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. **S27** - Take off immediately all contaminated clothing. **S37** - Wear suitable gloves. **S45** - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL ENTITY	CAS No	PROPORTION W/V %
AMMONIUM HYDROGEN DIFLUORIDE	1341-49-7	30g/Litre
Available hydrogen fluoride (formed in solution)	7664-39-3	8 to 12 g/Litre
Other non-hazardous ingredients including water to 100%		

**4. FIRST AID MEASURES**

**Ingestion:** Immediately rinse mouth with cold water. Do NOT induce vomiting. If available, give large quantity of water containing six tablets of effervescent Calcium gluconate. If not available use milk. Obtain medical attention immediately.

**Eye contact:** Immediately flush with lukewarm, gently flowing water for 20 minutes. If available instil several drops of sterile Calcium Gluconate (10% solution). Obtain medical attention immediately.

**Skin contact:** Flush with copious water to remove acid. Then wash with soap and water and rinse. Then apply Calcium Gluconate Gel 2.5%. Obtain medical attention immediately.

**Inhalation:** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Do NOT give mouth-to-mouth resuscitation. To protect rescuer, use air-viva, oxy-viva or one way mask. Resuscitate in a well-ventilated area. Obtain medical attention immediately.

**Notes to physician:** The product has 8 to 12 grams of hydrogen fluoride per litre. Suggest immediate intubation and gastric lavage with Calcium Gluconate solution due to the poisonous nature of the acid.

**5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media:** If material is involved in a major fire use water fog (or if unavailable fine water spray) to keep drums cool. Use, foam, dry agent (carbon dioxide, dry chemical powder) to extinguish fires as required by other flammable/combustible components involved in the fire.

**Specific hazards:** Containers may burst if in fire. Keep containers cool by water fog.

Product is also corrosive to skin, eyes and most metals which release hydrogen gas a highly flammable gas.

**Fire fighting further advice:** Fire fighters to wear full protective gear including self-contained breathing apparatus if risk of exposure to products of combustion.

**Hazchem Code:** 2 X.

**6. ACCIDENTAL RELEASE MEASURES**

**Emergency procedures:** Wear full protective gear to prevent skin contact. If small amounts, absorb into Sonitron<sup>®</sup> Alsorb, sand, earth or acid resistant absorbent materials. If larger amounts, contain liquid to prevent run off. Transfer to approved Group I I plastic containers using plastic scoops and funnels. Neutralise residues with 10% soda ash solution until bubbling ceases. Dispose of result of neutralisation according to local regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling:**

Wear acid resistant clothing, boots and gloves with eye protection. Avoid skin and eye contact. Handle using good industrial hygiene practices. Wash contaminated clothing and washable equipment before storage or re-use.

**Storage:** Store according to Local, State or Federal regulations as applicable, for a CORROSIVE CLASS 8 acid liquid, Subrisk 6.1. Keep locked up and out of reach of children. Store in a cool, dry place and out of direct sunlight. Store away from foodstuffs, alkali, hypochlorites, metals. Keep containers closed when not in use.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****National occupational exposure limits:**

Product name: RUST REMOVER

Issued: 1-12-2009

Version: 1

Value assigned for this specific material by the National Occupational Health and Safety commission (NOHSC). Use TWA of 3ppm as a maximum. STEL 6ppm.

**Engineering measures:** Control to below quoted Exposure Standards. Use with local exhaust ventilation. Keep containers closed when not in use. Do not smoke.

**Personal protection equipment:** Avoid contact. Gloves and face shield or goggles if no risk of splashes. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. If risk of inhalation of spray mist exists, wear combined organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form/Colour/Odour:</b>	Liquid, clear (water white), with acidic odour.	<b>pH as supplied @ 25°C:</b>	3.0
<b>Solubility:</b>	Soluble in water.	<b>Rel. Vapour density (air=1):</b>	Not available
<b>Specific gravity (20°C):</b>	1.015	<b>Vapour Pressure (20°C)mm Hg:</b>	Not available
<b>Melting point (C):</b>	Not available	<b>Flash Point (°C) Closed cup:</b>	Not relevant
<b>Boiling Point (°C):</b>	Not available	<b>Autoignition temp (°C):</b>	Not relevant
<b>Decomposition Point (°C):</b>	>100	<b>Evaporation Rate (Butyl acetate=1):</b>	Not relevant
<b>Flammability Limits (%):</b>	Not relevant		
<b>Volatile by volume:</b>	Not available		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable. Does not polymerise. Keep away from most metals and glass. Reacts with metals to form flammable hydrogen gas and etches glass.

## 11. TOXICOLOGICAL INFORMATION

No adverse effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

### Acute Effects:

**Ingestion:** Severe burning and/or perforation of the digestive system which may lead to death.

**Eye contact:** May cause severe and irreversible damage leading to blindness.

**Skin contact:** Can cause deep and painful skin burns. Burns from low concentrations such as this product may not be felt for several hours. Prolonged or repeated contact may lead to irreversible bone damage and poisoning.

**Inhalation:** This product gives rise to weak vapour concentrations which can cause irritation of the nose, throat, eyes and the respiratory tract.

**Long Term Effects:** Poison Information Centres in each State capital city can provide additional assistance for Scheduled Poisons: Phone: Australia - 13 1126, New Zealand - 0800 764 766.

**Acute toxicity/Chronic toxicity:** The major health hazards of acid fluoride relates to irritant and corrosive properties during short term acute exposures. Exposure to fluorides can lead to fluorosis in which fluorine accumulates in the bones and may cause osteosclerosis. This is highly unlikely to occur in relation to the normal use of this product.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Toxic in the aquatic environment. Do NOT allow to enter waterways.

**Persistence/Degradability:** Rapidly reacts with alkaline soils, silica to form fluorides. These are soluble in water and do not degrade other than by dilution.

**Mobility:** Expected to be mobile in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** Large empty containers should be forwarded to an approved agent for recycling. Small containers should be triple rinsed and sent to recycling. Refer to State/Territory Land Waste Management Authority if in doubt.

## 14. TRANSPORTATION INFORMATION

Classified by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

**UN No:** 2817

**Class:** 8

**Subrisk:** 6.1

**Hazchem code:** 2 X

**Packing group:** I I

**Proper Shipping Name:** Ammonium Hydrogen Difluoride Solution

**Segregation Dangerous Goods:** Not to be loaded with dangerous when wet substances (Class 4.3), organic peroxides (Class 5.2), radio active substances (Class 7), acid or alkaline (Class 8) or food and food packaging, foodstuffs and foodstuff empties.

## 15. REGULATORY INFORMATION

Hazardous according to criteria of National Occupational Health and Safety commission (NOHSC)

Classified by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

**Poisons schedule:** S 6

All of the constituents of this material are listed in the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

### Literature References:

Approved Criteria for Classifying Hazardous substances [NOHSC:1008(1999)]. Australian Code for the preparation of Material Safety Data Sheets 2003. Exposure standards for atmospheric contaminants in the occupational environment: Guidance note [NOHSC:3008(1995)] National Exposure Standards [NOHSC:1003(1995)]. List of designated hazardous substances [NOHSC:10005(1999)]. Standard for the Uniform Scheduling of Drugs and Poisons. The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Reason(s) For Issue – Conversion to 16 section MSDS.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product: and in particular how to safely handle and use the product in the workplace. Since Bennett Direct cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace i.e. a risk analysis.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Bennett Direct.