

MATERIAL SAFETY DATA SHEET

According to EC Directive 2001/58/EC

1. Identification of the Substances or Preparation and of the Company

1.1 Identification of preparation: **Rust Remover – New & Improved**

1.1.2 Date of Revision: July 15, 2008

1.1.3 Use of preparation: Cleaning Agent

1.2 Company identification:

Chemspec Europe

Unit 36C, Tong Park

Otley Road, Baildon

West Yorkshire BD17 7QD UK

Tel: 01274 597333

Fax: 01274 597444

1.3 Emergency telephone number, official advisory bodies:

1.3.1 For medical emergency call Chemtrec at 00-1-703 527-3887.

2. Composition/Information on Ingredients

2.1 Chemical Description: Water, Ammonium Bifluoride

2.2 Hazardous Ingredients:

Chemical Name	%	CAS-No.	EC#	Hazard Symbol	R-Phrases
Ammonium Bifluoride	5-10	1341-49-7	2156764	T, C	25,34

3. Possible Hazards

3.1 For humans: Corrosive to eyes and skin. Harmful if ingested.

3.2 For environment: None known.

4. First Aid Measures

4.1 Inhalation: Remove to fresh air. If symptoms persist consult physician.

4.2 Eye contact: Flush with water for at least 15 minutes.

4.3 Skin contact: Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing.

4.4 Ingestion: Drink plenty of water. Consult physician.

4.5 Physician: Treatment based on judgment of attending physician.

5. Fire Fighting Measures

5.1 Suitable extinguishing media: Water, Carbon dioxide, foam.

5.2 Unsuitable extinguishing media: None known.

5.3 Special exposure hazards: Possibly sulfur oxides, ammonia, hydrogen fluoride.

5.4 Special safety equipment: Self-contained positive pressure breathing apparatus and protective clothing.

6. **Accidental Release Measures**

- 6.1 Personal precautions: Prevent eye and skin contact.
- 6.2 Environmental precautions: Dispose of according to local regulations.
- 6.3 Methods of cleaning up: Use absorbent material to soak up spills. Sweep up and dispose of according to local regulations.

7. **Handling and Storage**

- 7.1 Handling: Prevent eye and skin contact.
- 7.2.1 Storage: Keep container closed to avoid contamination.
- 7.2.2 Incompatible storage: None known
- 7.2.3 Other: None known.

8. **Exposure Controls/Personal Protection**

- Please use common sense when handling this product.
- 8.1 Respiratory protection: Use local exhaust or dilution ventilation.
- 8.2 Hand protection: Gloves recommended.
- 8.3 Eye protection: Safety glasses recommended.
- 8.4 Skin protection: Use body covered clothing.
- 8.5 Working hygiene: Take usual precautions when handling.

9. **Physical and Chemical Properties**

- 9.1.1 Appearance: Clear liquid
- 9.1.2 Color: Colorless
- 9.1.3 Odor: Low
- 9.2 pH: 4.3 – 5.0
- 9.3 Boiling point/boiling range: n. av.
- 9.4 Specific Gravity: 1.04
- 9.5 Wt/Gal: 8.6 lbs/gal
- 9.6 Solubility in water: Complete
- 9.7 %VOC: None
- 9.8 Flash point: >200 deg. F
- 9.9 Inflammation: n. av.

10. **Stability and Reactivity**

- 10.1 Conditions to avoid: None known.
- 10.2 Materials to avoid: Strong oxidizers, concentrated acids and alkalis, halogens, cyanides, sulfides.
- 10.3 Hazardous decomposition of materials: See point 5.3.

11. **Toxicological Information**

- 11.1 Acute toxicity: n. av.
- 11.2 Acute oral toxicity: LD50 rat: n. av.
- 11.3 Chronic effects: n. av.
- 11.4 Sensitization: n. av.
- 11.5 Carcinogenicity: n. ap.
- 11.6 Mutagenicity: n. av.

- 11.7 Reproductive toxicity: n. av.
- 11.8 Narcotic effects: n. av.

12. **Ecological Information**

- 12.1 Water-Hazard class: None (U.S.)
- 12.2 Biodegradability: Biodegradable.
- 12.3 Bio-accumulation: n. av.
- 12.4 Aquatic toxicity: n. av.
- 12.5 Other relevant ecological information: Small quantities considered to be harmless.

13. **Disposal**

- 13.1 Refer to local regulations.

14. **Transport Information**

- 14.1 Ground:
Ammonium Hydrogendifluoride Solution, Class 8, 6.1, UN 2817, PG III.
- 14.2 Maritime:
Ammonium Hydrogendifluoride Solution, Class 8, 6.1, UN 2817, PG III.
- 14.3 Air:
Do not ship.
- 14.4 Other: Packaging exemptions may apply.

15. **Regulations**

- 15.1 Symbol: T: Toxic; C: Corrosive



- 15.2 R-Sentences:
 - R25: Toxic if swallowed.
 - R34: Causes burns.
- 15.3 S-Sentences:
 - S2: Keep out of reach of children.
 - S24: Avoid contact with skin and eyes.
 - S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S37: Wear suitable gloves.
 - S39: Wear eye/face protection.
 - S46: If swallowed, seek medical advice immediately and show this container or label.

16. **Other Information**

DISCLAIMER OF LIABILITY

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof.

n.ap = not applicable

n.av = not available