

# SAFETY DATA SHEET



Revision Date 26-Feb-2015  
Version 1

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name Rust Remover  
Product code W.20366

### 1.2 Product Use Information

Recommended Use Professional Carpet Cleaning  
Restrictions on use Professional Use Only

### 1.3 Supplier Details

Manufacturer Chemspec  
901 North Newkirk  
Street  
Baltimore, MD  
21205.  
E-mail Address msds@chemspecworld.com

### 1.4 Emergency telephone number

Emergency telephone number Chemtrec: 1-800-424-9300 for US  
+1 703-527-3887 outside US

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200

Serious eye damage/eye irritation	Category 1
-----------------------------------	------------

### 2.2 Label elements

#### Hazard pictograms



#### Signal Word

Danger

#### Hazard Statements

H318 - Causes serious eye damage

**Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

**2.3 Hazards not otherwise classified (HNOC)**

None known

**2.4 Other information**

No information available

**3. Composition/Information on Ingredients**

Chemical Name	CAS-No	Weight %
AMMONIUM BIFLUORIDE	1341-49-7	10 - 20

**4. First Aid Measures****4.1 Description of first-aid measures****First aid measures for different exposure routes**

<b>General advice</b>	Immediate medical attention is required.
<b>Eye contact</b>	Keep eye wide open while rinsing. Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area.
<b>Skin contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

**Main Symptoms** See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

**4.3 Recommendations for immediate medical care and/or special treatment**

**Notes to physician** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

**5. Fire-Fighting Measures**

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Special Hazard</b>	The product causes burns of eyes, skin and mucous membranes Thermal decomposition can lead to release of irritating gases and vapors
<b>Hazardous Combustion Products</b>	No information available.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

**5.3 Advice for firefighters****Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

Refer to protective measures listed in Sections 7 and 8.

**6.2 Environmental precautions**

Do not allow material to contaminate ground water system. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**6.3 Methods and materials for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
<b>Methods for cleaning up</b>	Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

## 7. Handling and Storage

**7.1 Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Incompatible Materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

## 8. Exposure Controls/Personal Protection

### 8.1 Occupational Exposure Limits (OEL)

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
AMMONIUM BIFLUORIDE 1341-49-7	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup> dust

TWA: Time weighted average  
STEL: Short term exposure limit

Chemical Name	British Columbia	Alberta	Quebec	Ontario TWAEV
AMMONIUM BIFLUORIDE 1341-49-7	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

##### Eye/Face Protection

Safety glasses with side-shields.

##### Skin and body protection

Wear protective gloves/ protective clothing.

##### Respiratory protection

If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated.

##### Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection.

## 9. Physical and Chemical Properties

### Physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear liquid
<b>Color</b>	Colorless
<b>Odor</b>	Low
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
<b>pH VALUE</b>	5.5	
<b>Boiling point/boiling range</b>		
<b>Flash Point</b>		
<b>Evaporation rate</b>	No Data Available	
<b>Explosion Limits</b>		
<b>upper</b>	no data available	
<b>lower</b>	no data available	
<b>Vapor pressure</b>	no data available	
<b>Vapor density</b>	no data available	
<b>Relative density</b>	1.036 g/cc	
<b>Water solubility</b>	Soluble in water	
<b>Partition coefficient: n-octanol/water</b>	no data available	
<b>Viscosity, kinematic</b>	no data available	
<b>Autoignition temperature</b>	no data available	
<b>Decomposition temperature</b>	no data available	
<b>Melting/freezing point</b>	No data available	
<b>Flammability (solid, gas)</b>		

### Other information

**Volatile organic compounds (VOC) content** None

## 10. Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to Avoid

No information available

### 10.5 Incompatible Materials

No materials to be especially mentioned

### 10.6 Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors

## 11. Toxicological Information

### 11.1 Product Information

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information at the Product level
<b>Inhalation</b>	There are no data available for this product.
<b>Eye contact</b>	There are no data available for this product.
<b>Skin contact</b>	There are no data available for this product.
<b>Ingestion</b>	There are no data available for this product.

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ Cell Mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).  <i>IARC: (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans</i>
<b>Reproductive toxicity</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Chronic toxicity</b>	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risks of irreversible effects.
<b>Aspiration hazard</b>	No information available.

### Numerical measures of toxicity - Product Information

## 12. Ecological Information

### 12.1 Toxicity

**Ecotoxicity effects**  
Harmful to aquatic organisms

**Acute aquatic toxicity**

### Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

**12.5 Other adverse effects**

No information available

**13. Disposal Considerations****13.1 Waste Disposal Guidance****14. Transport Information****DOT**

Not regulated

**15. Regulatory Information****15.1 International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>PICCS</b>	-
<b>EINECS/ELINCS</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	-
<b>AICS</b>	-
<b>KECL</b>	-
<b>NZIoC</b>	-

"- " - Not listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

**15.2 U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
AMMONIUM BIFLUORIDE	1341-49-7	10 - 20	1.0

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
AMMONIUM BIFLUORIDE	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

Phosphoric acid	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
-----------------	---------	--	--

**15.3 U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Component	New Jersey	Massachusetts	Pennsylvania
AMMONIUM BIFLUORIDE 1341-49-7 ( 10 - 20 )	X	X	X

**16. Other Information**

<b>NFPA</b>	<b>Health Hazard</b> 3	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 3	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal protection</b> X

**Prepared By** Chemspec Regulatory Affairs/Product Safety

**Revision Date** 26-Feb-2015

**Revision Note**  
No information available

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**