



Safety Data Sheet

DSC Products Inc.

SDS#: 2115B

Date Revised: 06/01/2015

SECTION 1: PRODUCT IDENTIFICATION

Manufacturer Name	DSC PRODUCTS INC	24 Hour Emergency Telephone	(231) 739-2068
Address	1979 Latimer Dr.		
	Muskegon, MI 49442-6229	Fax (231)773-0477	
	(231) 777-3012	www.dscprod.com	
Trade Name	RUST – OFF	Product Type	Rust remover
Chemical Family	Ammonium Bifluoride	Formula	N/A

SECTION 2: HAZARDOUS IDENTIFICATION

GHS Classifications:

Skin Corrosion/irritation (Category 1, Sub-category B)
Serious Eye Damage/Eye Irritation (Category 1)

GHS Phrases:

Warning, H300 – Harmful or fatal if swallowed.
Warning, H312 – Harmful if absorbed through skin.
Warning, H335 – May cause respiratory irritation.

GHS Label Elements

Signal Word:

Danger

GHS Pictograms:



Hazard Statements:

Causes severe skin burns and serious eye damage.

Precautionary Statements:

Prevention:

Do not breathe mist, vapors or spray.
Wash hands and any exposed skin thoroughly after handling
Wear protective gloves. Wear eye/face protection. Wear protective clothing.

Response:

-Eyes

IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.

-Skin

Continue rinsing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

-Inhalation

Wash contaminated clothing before reuse.

-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

-Ingestion

-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

-Specific Treatment

SEE Safety Data Sheet Section 4 for additional information.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, State and federal regulations.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name/Common Name	% (optional)	Cas.No.	OSHA PEL	ACGIH TLV (source)
Ammonium Bifluoride	1-5	1341-49-7		
Water	60-100	7732-18-5		

SECTION 4: FIRST AID MEASURES

Eyes	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
Skin	Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POSION CENTER OR PHYSICIAN. Apply 2.5% calcium gluconate gel if available and rub into area using rubber gloves. Wash contaminated clothing before reuse. Discard or destroy contaminated shoes.
Ingestion	Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POSION VENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.
Inhalation	Remove victim to fresh air and keep at rest in a positon comfortable for breathing. IMMEDIATELY ALL A POSION CENTER OR PHYSICIAN.
Note to Physicians	Consider administration of 1% calcium gluconate if swallowed. Gastric lavage with calcium gluconate may be considered.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire.
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm seqers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (See Section 13).



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SECTION 7: HANDLING AND STORAGE

Precautions to be taken in handling and storage
Other: KEEP OUT OF REACH OF CHILDREN. Wash thoroughly after handling.
Keep container tightly closed and store in a cool place. Keep from freezing. Do not mix with other chemicals

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Ammonium bifluoride 1341-49-7	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust (Vacated) TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³ F

Respiratory Protection		Use a NIOSH approved respirator for acids if no mechanical ventilation	
Ventilation	Local	Mechanical X	Other
Protective Gloves	Impervious gloves	Eye Protection	Chemical splash goggles
Other Protective Clothing or Equipment		Wear rubber or other chemical-resistant gloves	
Work/Hygienic Practices		Wash with soap & water after contact with product	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (degrees F)	212° F	Specific Gravity (H₂O=1.0)	1.02	pH	4.0-4.5
Vapor Pressure (mm Hg)	N/A	Vapor Density (Air = 1)	N/A	Melting Point (degrees F)	N/A
Solubility in Water	Complete X	Evaporation Rate (vs. H₂O)	<1	Appearance	Liquid
Color	Clear	Odor	Mild	Flash Point	>212° F

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable	Incompatibility	Sodium hypochlorite
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and other toxic gases or vapors.	Hazardous Polymerization	Will not occur
Reactivity	This material is considered to be a non-reactive under normal conditions of use.	Conditions to Avoid	Extremes of temperature and direct sunlight.



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SECTION 11: TOXICOLOGY INFORMATION

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Eye Contact	Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
Skin Contact	Pain, redness, blistering and possible chemical burn.
Inhalation	Irritation or damage to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.
Ingestion	Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects

Contains ammonium bifluoride. Absorption by skin contact ingestion, inhalation or other means may result in hypocalcemia (lowering of serum calcium) with nervous disorders (tetany) and cardiac arrhythmia. Inhalation of high concentrations presents a risk of chemical pneumonia and/or pulmonary edema. Chronic exposure to ammonium bifluoride can cause bone or dental fluorosis. Individuals with diabetes insipidus or some forms of renal impairment may be at greater risk from the effects of ammonium bifluoride.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 5058 mg/kg

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	>90 mL/kg (Rat)	Not Available	Not Available
Ammonium bifluoride	=130 mg/kg (Rat)	Not Available	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.



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SECTION 14: TRANSPORTATION INFORMATION

DOT (US)

UN number: 1760

Class: 8

Packing group: III

Proper shipping name: Corrosive liquids, no.o.s. (Contains Ammonium hydrogen difluoride solution)

IMDG

UN number: UN 1760

Proper Shipping Name: Corrosive liquids, n.o.s. (Contains Ammonium hydrogen difluoride solution)

Hazard Class: 8

Packing Group: III

SECTION 15: REGULATORY INFORMATION

TSCA Status:

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313 Components

This product does not contain listed substances above the "de minimus" level.

SARA 311/312 Hazards

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

	Health	Fire	Reactivity	Special	Personal Protection Index
NFPA	3	0	0	0	B
HMIS	3	0	0	0	B

Note to Reader

The information contained herein is deemed accurate and complete at the time of this publication. Use of the product beyond care, custody and control of the manufacture shall bear no warranty whether implied or expressed. DSC Products, Inc. assumes no liability for injury to any person or property resulting of this product without strict adherence to safety procedures. User bears all risks concerning use of the product as designated through labeling. It is recommended any and all data, directives and recommendations should be followed accordingly. This does not apply to any combination with other materials, chemical compounds or processes not inclusive of aforementioned specifications.