



Material Safety Data

DSC Products Inc.

MSD#: 2114B

Date Prepared: 05/01/2001

	Health	Fire	Reactivity	Special	Personal Protection Index
NFPA	2	0	0	0	B
HMIS	2	0	0	0	B

SECTION 1: PRODUCT IDENTIFICATION

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

SECTION 2: HAZARDOUS INGREDIENTS

Name/Common Name	% (optional)	Cas.No.	OSHA PEL	ACGIH TLV (source)
Ammonium Bifluoride		1341-49-7		

SECTION 3: PHYSICAL DATA

Boiling Point (degrees F)	212F	Specific Gravity (H2O=1.0)	1.03	pH	5
Vapor Pressure (mm Hg)	N/A	Vapor Density (Air = 1)	N/A	Melting Point (degrees F)	N/A
Solubility in Water	Complete X	Invisible	Emulsible (or dispersible)	Slight (or partial)	
Evaporation Rate (vs. H2O)		Faster	Slower	About the same X	
Appearance and Odor			Opaque gel / None		

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.)	N/A	Boiling	None to limits
Flammable Limits	N/A	Upper	Lower
Extinguishing Media	CO2, Foam, Dry Chemical	Special Fire Fighting Procedures	None
Unusual Fire and Explosion Hazards	None		

SECTION 5: REACTIVE DATA

Stability	Stable	Incompatibility	Reacts with metals/glass, strong acids, alkalis
Hazardous Decomposition Products	NH3, HF	Hazardous Polymerization	Will not occur

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SECTION 6: HEALTH HAZARDS

Threshold Limit Value – Product (Section 2-TLV)		None Established X		Not Applicable		
Primary Routes of Exposure		Eye X	Skin X	Oral X	Inhalation	Other
Signs and Symptoms of Over-exposure (acute)						
Eyes	Causes irritation		Skin	Contact may cause irritation		
Inhalation	Causes respiratory irritation		Ingestion	Causes irritation of mouth, stomach, vomiting		
Signs and Symptoms of Over-exposure (chronic)			None established			
Medical Conditions aggravated by Over-exposure			None known			
Carcinogen or Suspect Carcinogen Ingredients				ARC	OSHA	None X

SECTION 7: EMERGENCY AND FIRST AID PROCEDURES

Eyes	Flush with water for 15 minutes, consult physician
Skin	Wash with soap and water, if irritation persists, consult physician
Ingestion	Perform gastric lavage with lime water or 1 % calcium chloride solution.
Inhalation	Remove to fresh air, if irritation persists, consult physician

SECTION 8: SPECIAL PROTECTION INFORMATION

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		Protect parts of the body that may come in contact with product	
Work/Hygienic Practices		Wash with soap & water after contact with product	

SECTION 9: SPILL OR LEAK PROCEDURES

Steps to be taken if released or spilled	Dilute with water
Waste disposal methods	Dispose to drain according to local, state and federal regulations

SECTION 10: STORAGE AND HANDLING INFORMATION

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

SECTION 11: ENVIRONMENTAL INFORMATION

Spill or Release

This product contains no ingredients regulated under section 313 Emergency Planning and Community Right-to-Know Act (EPCRA) of SARA Title III and 40 CFR 372 and is not regulated as hazardous waste under CERCLA and is not subject to the Superfund tax.

Notice: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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