

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

Manufactured by:
PuroChem Inc.
 1203 Ambassador Blvd.
 St. Louis, MO 63132
 PHONE: (314) 872-9333

Product Name: **RESTORER**
 SYNONYMS: N/A
 CHEMICAL FAMILY: N/A

EMERGENCY TELEPHONE: (800) 535-5053

HMIS RATING: HEALTH: 3 REACTIVITY: 0
 FIRE: 0 EQUIPMENT: C

SECTION II - PRODUCT COMPOSITION

— INGREDIENT —	%	CAS #	TLV
AMMONIUM BIFLUORIDE	10 - 20%	1341-49-7	2.5MG(F)/M ³
WATER, DYES, COMPATIBLE SURFACTANT	BALANCE		
DOT SHIPPING DESCRIPTION	CONSUMER COMMODITY - ORM-D		

SECTION III - PHYSICAL PROPERTIES

BOILING RANGE:	SIMILAR TO WATER
SPECIFIC GRAVITY (H ₂ O=1):	1.0
VAPOR PRESSURE (mm of Hg) @20°C:	< 1
VAPOR DENSITY (AIR = 1):	< 1
SOLUBILITY IN H ₂ O:	COMPLETE
EVAPORATION RATE:	< 1
% VOLATILE:	N/A
PH:	6.5
APPEARANCE AND ODOR:	CLEAR, LOW VISCOSITY LIQUID WITH MILD ODOR

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY LIMITS (% IN AIR): N/A
 FLASH POINT (c.c.): N/A
 FLAMMABILITY CLASSIFICATION: NON-FLAMMABLE
 RECOMMENDED EXTINGUISHING MEDIA: CO₂ Dry Chemical, Foam, Water Spray
 SPECIAL FIRE FIGHTING PROCEDURES: Fire-fighters should be equipped with appropriate protective apparel and NIOSH approved breathing apparatus.
 UNUSUAL FIRE/EXPLOSION HAZARDS: Decomposes on heating. Fumes corrosive and toxic.

SECTION V - HEALTH INFORMATION

THRESHOLD LIMIT VALUE: 2.5MG(F)/M³ OSHA PEL2.5MG(F)/M³
 EFFECTS OF OVEREXPOSURE: Fluoride-like burns to the skin may appear after contact.

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: Flush eyes with running water for 30 minutes. Obtain immediate medical attention.
SKIN CONTACT: Flush with running water.
INHALATION: Remove to fresh air
INGESTION: **DO NOT INDUCE VOMITING.** Give lots of water and get immediate medical attention.

Route(s) of Entry: Inhalation? X Skin? X Ingestion? X

Health Hazards

- 1.) Acute - Causes chemical burns
- 2.) Chronic - Information on chronic health hazard not currently available.

Chemical Listed as Carcinogen or Potential Carcinogen:

National Toxicology Program:	___ YES	<u>X</u> NO
I.A.R.C. Monographs:	___ YES	<u>X</u> NO
OSHA:	___ YES	<u>X</u> NO

Signs and Symptoms of Exposure: Irritation, burning of skin, mucous membranes and respiratory system.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE
 CONDITIONS TO AVOID: DAMP STORAGE AREAS
 INCOMPATIBILITY WITH OTHER MATERIALS: Strong acids or alkali.
 Product will etch glass.
 HAZARDOUS DECOMPOSITION PRODUCTS: Heat, contact with strong acids or alkali liberates hydrogen fluoride and/or ammonia.
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURES IF MATERIAL IS SPILLED OR RELEASED: Small spills may be flushed to sewer. Large spills should be contained and neutralized with base. Wear proper gear.
 WASTE DISPOSAL PROCEDURES: Neutralized product can be released to sanitary sewer or in accordance with local, state and Federal ordinances.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required
 VENTILATION: Local exhaust sufficient
 PROTECTIVE GLOVES: Rubber or neoprene
 EYE PROTECTION: Chemical goggles or full face shield
 OTHER PROTECTIVE EQUIPMENT: Not required in normal use

SECTION IX - ADDITIONAL PRECAUTIONS

PRECAUTIONS IN HANDLING AND STORAGE AND OTHER PRECAUTIONS: Practice common sense in the handling of these products. Avoid spills and splashing of opened products. Store product in tightly closed original container. Do not repackage in glass or metal containers. Store in cool dry place. Store away from other chemicals. Provide adequate ventilation. KEEP OUT OF REACH OF CHILDREN.

** ADDITIONAL INFORMATION **

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for particular purposes.