

MATERIAL SAFETY DATA SHEET

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HEALTH = 2, FLAMMABILITY = 0, REACTIVITY = 0, SPECIAL = NONE, DEGREE OF HAZARD: 4 = EXTREME, 3 = HIGH, 2 = MODERATE, 1 = SLIGHT, 0 = INSIGNIFICANT

PRODUCT NAME: **RUST REMOVER**

DOCUMENT CODE: Rust Remover New

CHEMICAL FAMILY: Acidic Salt Solution

DATE: 04/16/93

DATE REVIEWED: 08/24/99

EMERGENCY 24-HOUR TELEPHONE # 1-800-424-9300 (CHEMTREC)

N/A = Not applicable

N/D = Not determined

SECTION I: HAZARDOUS INGREDIENTS/HEALTH HAZARD DATA

This product has not been tested as a whole for health effects on animals or humans. According to the OSHA Hazardous Communications Standard (29 CFR 1910.1200) any hazardous ingredients that comprise >1.0% of the material and any carcinogenic ingredients that comprise >0.1% must be listed on the MSDS.

SECTION I (a): List of carcinogenic ingredients at >0.1%.

None.

SECTION I (b): List of hazardous ingredients at >1.0%.

NAME	CAS NO.
AMMONIUM HYDROGEN FLUORIDE	1341-49-7

Contact may cause eye, skin, nose, throat irritation and burns. Ingestion may cause vomiting, abdominal pain, convulsions, collapse, and acute toxic nephritis. Repeated overexposures may lead to fluorosis. Oral rat LD50 is 350 mg/kg. ACGIH TLV is 2.5-mg/cubic meter, dust.

SECTION II: EMERGENCY AND FIRST AID PROCEDURES

EYES: Flush with water for at least 15 min. Consult physician.

SKIN: Remove contaminated clothing. Thoroughly wash exposed skin with soap and water.

INHALED: Remove to fresh air. Consult physician.

INGESTION: Drink milk or water. **IMMEDIATELY CONSULT PHYSICIAN.**

PHYSICIAN: Product contains less than 10% fluorine by weight. Treatment based on judgment of attending physician.

SECTION III: PHYSICAL / CHEMICAL DATA

APPEARANCE AND ODOR: Clear colorless liquid with low odor.

WATER SOLUBILITY, % BY WT: > 95

SPECIFIC GRAVITY: 1.03 % VOLATILE BY WT.: 90 - 95

pH: 4.5 - 5.5

WT/GAL: 8.6 lbs.

BOILING POINT: Approximately 212 F

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: > 200 degrees F (TCC) AUTO-IGNITION TEMPERATURE: N/D

EXPLOSIVE LIMITS - LEL: N/D UEL: N/D

EXTINGUISHING MEDIA: Water fog, CO₂, foam or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH/MSHA approved self-contained positive-pressure breathing apparatus and protective clothing where this material is involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARD: Decomposes on heating, fumes are corrosive and toxic.

SECTION V: REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Corrodes glass, cement and most metals. Do not store on glass or porcelain, flammable gas may collect in headspace.

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS: Hydrogen fluoride and ammonia.

SECTION VI: SPILLS, LEAKS AND DISPOSAL PROCEDURES

WASTE DISPOSAL: In accordance with Federal, State and Local regulations.

NEUTRALIZING CHEMICALS: Lime or alkaline material.

SECTION VII: PROTECTION MEASURES

VENTILATION: Not usually required.

EYE PROTECTION: Chemical resistant safety glasses.

RESPIRATORY PROTECTION: Avoid inhaling mists.

GLOVES: Rubber gloves.

OTHER PROTECTIVE EQUIPMENT: Body-covering clothing should be worn.

SECTION VIII: SPECIAL PRECAUTIONS

One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

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.