

SEI Chemical
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Product: **SEI HEAVY DUTY RESTORER**
Product ID No.: AR-101
Material Safety Data Sheet

This Material Safety Data Sheet (MSDS) contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community Right To Know emergency response reporting requirements under SARA TITLE III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS.

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION 2 PRODUCT COMPONENTS

INGREDIENTS	CAS#.	WT.%	EXPOSURE LIMITS
Ammonium Bifluoride modified emulsion	1341-49-7	20-30	2.5 mg/m ³ TWA OSHA PEL (as Fluoride) 2.5 mg/m ³ TWA ACGIH TLV (as Fluoride)

SECTION 3: HAZARDS IDENTIFICATION

This product is a clear liquid with no odor.

HEALTH HAZARDS:

INHALATION: Low toxicity excessive exposure may cause irritation SKIN CONTACT: Low toxicity excessive exposure may cause irritation Wash with water and soap. EYE CONTACT: Low toxicity excessive exposure may cause irritation.

INGESTION: Swallowing may cause nausea.

SECTION 4 EMERGENCY and FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eye with water for at least 15 minutes while lifting the upper and lower lids. SKIN CONTACT: Wash with soap and water.

SECTION 4 EMERGENCY and FIRST AID PROCEDURES (continued)

INHALATION: Remove victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.

INGESTION: Give milk, chewable calcium carbonate tablets or milk of magnesia. Do not induce vomiting. Get immediate medical attention.

SECTION 5 FIRE and EXPLOSION HAZARD DATA

FLASH POINT: Non-flammable

FLAMMABLE LIMITS: (vol % in air) LEL – N/A UEL – N/A

EXTINGUISHING MEDIA: Use any media appropriate for surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contact with alkalis and metals may evolve flammable hydrogen gas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear clothing and equipment. Dike spill and prevent spill from entering sewers and waterways. Collect into appropriate containers for disposal with an absorbent. Wash spill area with water. Report spill as required by local and federal regulations.

SECTION 7 HANDLING & STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Protect containers from physical damage. Store in a cool, well ventilated area away from alkalis and acids. Do not store in metal containers.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

RESPIRATORY PROTECTION: For spray application and for large jobs where the recommended exposure limit may be exceeded an approved full facepiece particulate respirator, supplied air respirator (with escape bottle if required) or self-contained breathing apparatus may be required.

Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

VENTILATION: For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits. GLOVES: recommended. PROTECTIVE CLOTHING: Clothes are recommended.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION (continued)

EYE PROTECTION: Optional OTHER PROTECTIVE EQUIPMENT: A safety shower and an eye wash facility should be available for large jobs.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT (@ 760 mmHg): Not available MELTING POINT: Not applicable

SPECIFIC GRAVITY (H₂O=1): Approximately 1.05 VAPOR PRESSURE: Same as water

VOLATILE: 85-95% VAPOR DENSITY (AIR=1): Not available

EVAPORATION RATE: Same as Water SOLUBILITY IN WATER: Complete

pH: 5.5 COEFFICIENT OF WATER/OIL: Not available

VOC Content: 0% APPEARANCE AND ODOR: Clear liquid with no odor. The odor threshold for ammonia is 1 ppm.

SECTION 10 STABILITY and REACTIVITY

STABILITY: This material is stable. CONDITIONS TO AVOID: Contact with metals and alkalis may release gases.

INCOMPATIBILITY: Avoid acids, alkalis, caustics, sulfides, sulfur oxides and ammonia.

SECTION 11 TOXICOLOGICAL INFORMATION

TOXICOLOGY DATA: No toxicity data is available for product or hazardous components.

None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.

None of the components have been found to be mutagenic.

None of the components are known to cause sensitization in animals or humans.

None of the components are known to cause adverse reproductive effects or teratogenic effects in animals or humans.

SECTION 12: ECOLOGICAL INFORMATION

This material is expected to be non-toxic to aquatic organisms.

SECTION 13: DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT SHIPPING NAME: Hydrogen difluoride Solution, 8, UN2817, PGIII

DOT HAZARD CLASSIFICATION: Semi-corrosive Liquid

UN NUMBER: UN2817

SECTION 15: REGULATORY INFORMATION

EPA SARA 311 HAZARD CLASSIFICATION: Acute health, Chronic health

EPA SARA 313: This product contains no chemicals that are regulated under SARA Title III, section 313.

CERCLA Hazardous Substances (Section 103)/RQ: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Ammonium Bifluoride (15% maximum) of 100 lbs, is 666 lbs.

CALIFORNIA PROPOSITION 65: This product contains no California Proposition 65 regulated chemicals.

CANADIAN ENVIRONMENTAL PROTECTION ACT: All of the components of this product are listed on the Canadian Domestic Substances List (DSL).

EUROPEAN INVENTORY OF COMMERCIAL CHEMICAL SUBSTANCES: All of the components of this product are listed on the EINECS Inventory.

JAPAN MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES: All of the components of this product are listed on the AICS Inventory.

SECTION 16: OTHER INFORMATION

NFPA Rating: Health: 2 Fire: 0 Reactivity: 0