

MATERIAL SAFETY DATA SHEET
Safe n' Easy Heavy Duty Restoration Cleaner

SECTION 1 IDENTIFICATION

Product Name: Safe n' Easy Heavy Duty Restoration Cleaner

Manufactured for:
DUMOND CHEMICALS, INC
104 Interchange Plaza, Ste. 202
Monroe Township, NJ 08831
(609) 655-7700

MSDS Date of Preparation: 5/18/11

EMERGENCY PHONE: (800)457-4280 (InfoTrac) #79363

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER!

This product is a clear liquid with no odor. Corrosive. Causes severe burns to the eye, skin and mucous membranes. Burns may not be immediately painful or visible. Inhalation may cause respiratory irritation or burns with coughing or labored breathing. Symptoms may be delayed. May be fatal if swallowed. May cause chronic effects.

SECTION 3 PRODUCT COMPONENTS

<u>Components</u>	<u>CAS#.</u>	<u>WT.%</u>
Ammonium Bifluoride	1341-49-7	20-30
Ammonia	7664-41-7	1-5

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. Get immediate medical attention.

SKIN CONTACT: Immediately wash with large amounts of soap and water until no traces of the chemical remain. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes and other items that cannot be decontaminated. Get immediate medical attention.

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

INGESTION: If conscious, give milk, chewable calcium carbonate tablets or milk of magnesia. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

SECTION 5 FIRE and EXPLOSION HAZARD DATA

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 alkalies and metals may evolve flammable hydrogen gas. Emits toxic fumes under fire conditions.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate protective clothing and equipment to prevent contact. 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 and 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.

Prevent eye and skin contact. Do not breathe vapors or mists. Use only with adequate ventilation and appropriate protective clothing (See Section 8). Immediately remove and launder contaminated clothing before re-use. Discard contaminated shoes and other items that cannot be decontaminated. Wash thoroughly after handling.

OTHER PRECAUTIONS: Empty containers retain product residues. Follow all MSDS precautions in handling empty containers.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

Components

Ammonium Bifluoride

Ammonia

EXPOSURE LIMITS

2.5 mg/m³ TWA OSHA PEL (as Fluoride)

2.5 mg/m³ TWA ACGIH TLV (as Fluoride)

50 ppm mg/m³ TWA OSHA PEL

25 ppm mg/m³ TWA ACGIH TLV, 35 ppm STEL

RESPIRATORY PROTECTION: If the exposure limits are exceeded, an approved full facepiece respirator with ammonia/particulate cartridges, 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: Neoprene, nitrile, 4H or other impervious gloves are recommended to prevent skin contact.

PROTECTIVE CLOTHING: Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION (continued)

EYE PROTECTION: Wear chemical safety goggles and/or faceshield to prevent eye contact unless a full facepiece respirator is used. Do not wear contact lenses.

OTHER PROTECTIVE EQUIPMENT: A safety shower and an eye wash facility should be available in the immediate work area.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear liquid with no odor. When the product is applied, ammonia is released which has a slight pungent odor. The odor threshold for ammonia is 1 ppm.

BOILING POINT (@ 760 mmHg): Not available

SPECIFIC GRAVITY (H₂O=1): 1.05

VOLATILE: 85-95%

EVAPORATION RATE: Same as Water

pH: 5.0-5.5

VOC Content: 0 g/L

FLASH POINT: Non-flammable

FLAMMABLE LIMITS: (vol % in air)

MELTING POINT: Not applicable

VAPOR PRESSURE: Same as water

VAPOR DENSITY (AIR=1): Not available

SOLUBILITY IN WATER: Complete

COEFFICIENT OF WATER/OIL: Not available

AUTOIGNITION TEMPERATURE: Not applicable

LEL – N/A

UEL – N/A

SECTION 10 STABILITY and REACTIVITY

STABILITY: This material is stable.

CONDITIONS TO AVOID: Contact with metals and alkalis may release flammable hydrogen gas.

INCOMPATIBILITY: Avoid acids, alkalis, caustics, sulfides, sulfur oxides and ammonia. Reacts with acids to liberate toxic and corrosive hydrogen fluoride. Reacts with bases to liberate ammonia.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield toxic hydrogen fluoride, nitric oxides and ammonia.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Not applicable.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

INHALATION: Mist and vapors may cause respiratory irritation or burns with coughing and labored breathing. May cause fluoride poisoning with effects similar to those listed under "ingestion". Symptoms may be delayed.

SKIN CONTACT: Contact may cause severe irritation or burns to the skin. Burns may not be immediately painful or visible. Treat all contact immediately and get medical attention.

EYE CONTACT: Contact may cause severe irritation or burns with redness, pain and swelling. Permanent damage may occur.

INGESTION: Swallowing may cause gastrointestinal irritation or burns, nausea, vomiting and abdominal pain. May cause fluoride poisoning with symptoms including weakness, tremors, shallow breathing, spasms of the hands and feet, convulsions and coma. May cause central nervous system, kidney and cardiovascular effects. Respiratory paralysis may cause death. Swallowing large amounts may cause hypocalcemia and hypomagnesia.

CHRONIC EFFECTS OF OVEREXPOSURE: Prolonged or repeated exposure may cause mottling of teeth, damage to bones and fluorosis with symptoms including brittle bones, weight loss, anemia, calcified ligaments and joint stiffness.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with diabetes or chronic kidney disorders may be at increased risk from exposure to this material.

TOXICOLOGY DATA: No toxicity data is available for product.

	LD50	LC50
Ammonium Bifluoride	130 mg/kg oral rat	No data available
Ammonia	350 mg/kg oral rat	4,800 ppm/1 hr inhalation rat

None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC, ACGIH 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 not expected to be toxic to aquatic organisms.

Ammonium Bifluoride: 96 hr LC50 fish 316 mg/L.

Ammonia: 96 hr Lepomis cyanellus (green sunfish) 0.6 mg/L; 48 hr LC50 daphnia magna 24 mg/L

SECTION 13: DISPOSAL INFORMATION

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

SECTION 14: TRANSPORTATION INFORMATION

DOT SHIPPING NAME: UN3264, Corrosive Liquid, Acidic, Inorganic, n.o.s. (Ammonium Hydrogendifluoride), 8, PG II
DOT HAZARD CLASSIFICATION: Corrosive Liquid
DOT LABELS REQUIRED (49CFR172.101): Corrosive
UN NUMBER: UN3264

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD CLASSIFICATION: Corrosive, toxic, target organ effects

EPA SARA 311 HAZARD CLASSIFICATION: Acute health, Chronic health

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313.

Ammonia	7664-41-7	1-5%
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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 (30% maximum) of 100 lbs, is 333 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

WHMIS CLASSIFICATION: Class D - Division 1B (Toxic material causing immediate and serious toxic effects)
Class E – Corrosive

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

TOXIC SUBSTANCES CONTROL ACT: All of the components of this product are listed on the TSCA inventory.

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: 3 Fire: 0 Reactivity: 0