

Better Chemistry. Better Business

DIE-BRITE 54

1 IDENTIFICATION

Product Code :2380005

Recommended use of the chemical and restrictions on use:Industrial applications

Hubbard-Hall Inc.

563 South Leonard Street
Waterbury, CT 06708

Telephone: 203-756-5521

Fax number: 203-756-9017

Emergency Phone Number

CHEMTREC: 1 (800) 424-9300

International: 1 (703) 527-3887

2 HAZARDS IDENTIFICATION



Signal Word: DANGER

Hazard Category: Acute Toxicity-Oral Hazard Category 3

Eye Damage/Irritation Hazard Category 1

Skin Corrosion/Irritation Hazard Category 1A

Acute Toxicity-Inhalation Hazard Category 1

Specific Target Organ Toxicity (Single Exposure) Hazard Category 2

Corrosive to Metals Hazard Category 1

Hazard Statements: Toxic if swallowed.

Causes severe skin burns and eye damage.

May be corrosive to metals.

May cause damage to lungs and teeth through inhalation.

Fatal if inhaled.

Prevention: Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing dust, fumes, gas, mist, vapors and sprays.

Wear rubber gloves, goggles and chemical protective clothing.

Use only outdoors or in well ventilated area.

Keep only in original container.

Response: If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call poison center/doctor if yo

Immediately call poison center or doctor and explain the type of exposure to the chemical(s) and provide
Specific treatment - refer to poison center or doctor for advice.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
Absorb spillage to prevent material damage.

Storage: Store locked up.

Store in corrosive resistant high density polyethylene container.

Store in well ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container in accordance with local, regional, national, or international regulations.

3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Nitric Acid	Aqua Fortis	7697-37-2	Approx 17%
Ammonium Bifluoride	Ammonium Hydrogen Fluoride	1341-49-7	Approx 20%

4 FIRST AID

After Inhalation:

Remove from contaminated atmosphere. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration, which may be supplemented by the use of a bag-mask respirator, or manually triggered, oxygen supply capable of delivering 1 liter/second or more. If the victim is breathing, oxygen may be administered from a demand-type or continuous flow inhalor, preferably with a physician's advice. Contact a physician immediately.

After Skin Contact:

Immediately remove contaminated clothing under a safety shower. Flush all affected areas with large amounts of water for 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice.

After Eye Contact:

Immediately flush the eyes with large quantities of running water for 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyelids with water. DO NOT attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue rinsing for an additional 15 minutes if the physician is not available.

After Ingestion:

DO NOT induce vomiting. Immediately give large quantities of water or milk, if available. If vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or the nearest Poison Control Center.

5 FIRE FIGHTING MEASURES

Suitable and Unsuitable extinguishing media:

If involved in a fire, use water spray. Neutralize with soda ash or slaked lime.

Specific hazards arising from the chemical:

This product may release flammable hydrogen gas on contact with metal, which may significantly contribute to the risk of fire and explosion.

Special protective equipment and precautions for firefighter

In the event of a fire, wear full protective clothing and NIOSH approved self contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Structural firefighter's protective clothing is ineffective for fires involving this material. Stay away from ends of tanks. Cool tanks with water spray until well after fire is out.

6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions,
Protective Equipment, &
Emergency Proc**

Prevent spilled product from drains, sewers, waterways and soil.

**Methods and Materials for
containment & cleaning up:**

Neutralize spill with soda ash or lime under good ventilation. For an interior (inside a closed space) spill be aware that the use of Soda Ash, Lime will evolve heat and carbon dioxide thus the need for ventilation.

If trained in accordance 29 CFR 1910.120, leaks should be stopped. Spills should be contained and cleaned immediately. Persons performing clean up work should wear adequate personal protective equipment and clothing. Spills and releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

7 HANDLING AND STORAGE

Precautions for safe handling:

- Use in well ventilated area.
- Avoid breathing dust, fumes, gas, mist, vapors and sprays.
- Wear rubber protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.
- Keep only in original container .
- Wash hands thoroughly after handling.
- Do not get in eyes, or on skin, or on clothing.

**Conditions for safe storage,
inc any incompatibilities:**

- Keep container tightly closed.
- Store locked up and away from incompatible chemicals.
- Store in a well ventilated place. Keep cool .
- Store in corrosive resistant container.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Nitric Acid	ACGIH	2 ppm	-
Ammonium Bifluoride	ACGIH	2.5 mg/m3 (F)	2.5 mg/m3 (F)

ACGIH - American Control of Governmental Hygenists
OSHA - Occupational Safety and Health Administration

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Water like
- Odor:** Pungent, strong
- Odor Threshold:** N/A
- PH:** 1.5-2.5
- Melting Point/Freezing Point:** N/A
- Initial Boiling Point and Boiling Range:** N/A
- Evaporation Rate:** N/A
- Flammability (solid, gas):** N/A
- Upper/Lower flammability or explosive limits:** N/A

Vapor Pressure:	N/A
Relative Density:	1.15
Solubility (ies):	Complete in water
Partition Coefficient; n-octanol/water:	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	N/A

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Extreme temperatures. Contact with incompatible material. Light. Moisture.
Incompatible Materials:	Nitric Acid reacts or is incompatible with over 150 chemical combinations. Refer to NFPA protection guide for specifics. Metals, powders, reducing agents, strong bases, acetic acid, alcohols, acetone, aniline, hydrogen sulfide, carbides, anhydrides, organic solvents, combustible materials, chromic acid, flammable liquids, cyanides, sulfides. Incompatible with many other substances. DO NOT add water to the acid. ALWAYS add the acid to water while stirring to prevent the release of heat, steam, fumes.
Hazardous Decomposition Products:	Thermal decomposition products include oxides of nitrogen.

11 TOXICOLOGICAL INFORMATION

Oral Administration:	Nitric Acid -LD50->= 90 mg/kg (rat)
Oral Administration:	LD50, rat, 60 - 130 mg/kg (Ammonium Fluoride)
Inhalation:	Nitric Acid-LC50-30 min, -260 mg/m ³ (rat), LD50, 4 h-1302 mg/m ³ (rat); LD50, 4 h-67 ppm NO ₂ (rat)
Short term exposure:	Severe irritation or burns to skin, eyes and respiratory system
Cancer Hazard:	Not listed by IARC, NTP, OSHA, ACGIH
Routes of Exposure	Eyes, Skin, Inhalation, Ingestion

12 ECOLOGICAL INFORMATION

Persistence and Degradability:	Not Available
Abiotic degradability:	No data available
Bioaccumulation potential:	No data available
Soil/Sediment Result:	Pronounced solubility and mobility

13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulations.

14 TRANSPORT INFORMATION

UN Number:	3264
UN Proper Shipping Name:	CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, AMMONIUM BIFLUORIDE),
Transport Hazard Class (es):	8
Packing Group:	II
ERG:	154

15 REGULATORY INFORMATION

HMIS: Health: 3 Flammability: 0 Reactivity: 1

Cercla	Nitric Acid RQ=1000 lbs
Cercla	Ammonium Bifluoride-RQ=100 lbs

**Sara Hazard
Classification**

SARA Title III Section 311 Categories: Immediate (Acute) Health Effects: Yes, Delayed (Chronic)
Health Effects: No, Fire Hazard: No, Sudden Release of Pressure Hazard: No, Reactivity Hazard:
No

16 OTHER INFORMATION

No **RoHS** or **REACH SVHC** are contained in this product.

Disclaimer:

The information is based on our knowledge to date but does not constitute an assurance of product
properties and does not imply a legal contractual relationship.

Date Prepared:

10/15/14