



**4. FIRST AID MEASURES**

EYE CONTACT FIRST AID: Flush eye with water for 15 minutes. Get medical attention if irritation develops or persists.

SKIN CONTACT FIRST AID: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

INHALATION FIRST AID: Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen.

INGESTION FIRST AID: Get medical attention immediately. Do not induce vomiting.

STATEMENT OF PRACTICAL TREATMENT:

Always have plenty of water available for first aid.

NOTES TO PHYSICIAN: Treat patient symptomatically.

**5. FIRE FIGHTING MEASURES**

FLAMMABLE PROPERTIES: Autoignition Temperature: None

COC Flash Point: None TCC Flash Point: None

FLAMMABLE LIMITS IN AIR LEL: None UEL: None

EXTINGUISHING MEDIA: Will not burn.

FIRE & EXPLOSION HAZARDS: Material will not burn.

FIRE FIGHTING INSTRUCTIONS:

Contaminated extinguishing water must be disposed of in accordance with applicable regulations.

COMBUSTION PRODUCTS:

Carbon Monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

**6. ACCIDENTAL RELEASE MEASURES**

SAFEGUARDS (PERSONNEL): Protect skin and eyes from exposure.

INITIAL CONTAINMENT: Floor may become slippery. Contain spilled material.

LARGE SPILLS PROCEDURE:

Forms smooth, slippery surfaces on floors, posing an accident risk. Flush spill area with water to wastewater treatment system. After removal, flush contaminated area thoroughly with water. Or. Absorb spill with inert material (e g, dry sand or earth), then place in a chemical waste container. Always treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE:

Floor may become slippery. Wash to waste treatment system or absorb spills with inert material and dispose of waste material in accordance with all local, state/provincial, and national requirements.

**7. HANDLING AND STORAGE**

RECOMMENDED STORAGE TEMPERATURE

Minimum: 4.4 C (39.9 F) Maximum: 48.9 C (120.0 F)

HANDLING (PERSONNEL): Avoid contact with eyes, skin, and clothing.

STORAGE PRECAUTIONS:

Keep from freezing. Keep container closed when not in use. Do not stack drums more than three pallets high. Do not stack pails more than 4 high. Protect containers from physical damage.

MISCELLANEOUS: Do not stack over three pallets high.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

ENGINEERING CONTROLS: No special ventilation requirements.

EYE / FACE PROTECTION REQUIREMENTS:

Where contact with this material is likely, eye protection is recommended.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

**RESPIRATORY PROTECTION REQUIREMENTS:**

Under normal use conditions, with adequate ventilation, no special handling equipment is required.

**MISCELLANEOUS:** Where an apron and protective clothing.

**EXPOSURE GUIDELINES:** No Information Available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

FORM .....: Liquid  
COLOR .....: Colorless  
ODOR .....: Mild  
BOILING POINT .....: >212 F  
SOLUBILITY IN WATER .....: Complete  
SPECIFIC GRAVITY .....: 1.010 (Water = 1)  
BULK DENSITY .....: 8.42  
MELTING/FREEZING POINT ...: 32 F  
PH .....: 2.5  
% VOLATILES .....: 0 %  
PH @ 2% .....: 2.8

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable.

**POLYMERIZATION:** Hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known.

**DECOMPOSITION:**

Decomposition will not occur if handled and stored properly.

**CONDITIONS TO AVOID:**

This material is safe under normal storage and handling conditions.

Avoid contact with this material and Ferrous metal surfaces.

**11. TOXICOLOGICAL INFORMATION**

**EYE EFFECTS:** Can cause severe eye irritation and or burns.

**SKIN EFFECTS:** Contact may cause skin irritation, rash or burns.

**ACUTE ORAL EFFECTS:**

May cause diarrhea and or vomiting along with tissue burns.

**ACUTE INHALATION EFFECTS:** May be irritating if inhaled.

**12. ECOLOGICAL INFORMATION -- No information available.****13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:**

Dilute with water and discharge to an industrial sewage treatment facility. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. Uncleaned empty containers should be disposed of in the same manner as the contents. For additional waste disposal information contact your local NuGenTec representative at (888) 99-NuGen.

**CONTAMINATED MATERIALS:** Wash contaminated clothing before reuse.

**CONTAINER DISPOSAL:**

Clean out containers prior to disposal. Containers should be triple rinsed prior to disposal.

**14. TRANSPORTATION INFORMATION**

PRODUCT LABEL.....: 0.1HF 3Nitric  
D.O.T. SHIPPING NAME.....: Corrosive Liquid  
TECHNICAL SHIPPING NAME...: Corrosive Liquid, n.o.s. (Nitric acid mixture)  
D.O.T. HAZARD CLASS.....: 8  
UN NUMBER.....: 1760  
PRODUCT RQ (lbs).....: 50,000  
D.O.T. LABEL.....: Corrosive Liquid  
D.O.T. PLACARD.....: UN1760  
BULK CLASS.....: UN1760  
PACKAGE CLASS.....: 55

**MISCELLANEOUS:**

Export Classification, organic surface active agents (other than soap),  
washing preparations and cleaning preparations, schedule B # 3402.90.5030.

**15. REGULATORY INFORMATION**

EEC Symbols and Indications of Danger: None  
R-Phrases: None            S-Phrases: None  
WHMIS Hazard Symbols: None  
SARA Title III - Section 313: None

**MISCELLANEOUS INFORMATION:**

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).

**16. OTHER INFORMATION**

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**ADDITIONAL INFORMATION:**

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

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END OF MSDS

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