

MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-7787783-54-2.html> for suppliers of this product.

Composition/Information on Ingredients

1783-04-2

Code:
M

RTECS:

Code:
X

Name:
NITROGEN TRIFLUORIDE Environmental Wt: Other RE

Other REC Limits:
N/P

OSHA PEL:
N/P

Code:

OSHA STEL:
N/P

Code:

ACGIH TLV:
N/P

Code:

ACGIHSTEL:
N/P

Code:

Control Measures

POSITIVE PRESSURE AIR LINE
APPARATUS SHOULD BE AVAILABLE

Ventilation:
HOOD WITH FORCED VENTILATION. LOCAL EXHAUST. TO PREVENT ACCUMULATION ABOVE THE EXPOSURE LIMIT.

Protective Gloves:
PLASTIC OR RUBBER GLOVES.

Eye Protection:
SAFETY GOGGLES OR GLASSES.

Other Protective Equipment:
Equipment SAFETY SHOES.

Work Hygienic Practices:
4 N/P

Supplemental Safety and Health:
DON'T DRAG, SLIDE, ROLL, OR HEAT CYLINDERS. USE CHECK VALVE OR TRAP IN DISCHARGE LINE TO PREVENT BACK FLOW. STORE UPRIGHT & FIRMLY SECURED. USE FIRST-IN FIRST-OUT INVENTORY SYSTEM.

LD50LC50Mixture:
LC50 6700 PPM/1HR (BAT)

Route Of Entry Inds - Inhalation:
YES

Skin:
NO

Ingestion:
NO

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
EXPOSURE LIMITS: YES; IRRITANT: YES; SENSITIZATION: NO; TERATOGEN: NO; REPRODUCTIVE HAZARD: NO; MUTAGEN: NO; SYNERGISTIC EFFECTS: NONE REPORTED

Explanation Of Carcinogenicity:
N/P

Signs And Symptoms Of Overexposure:
2 EYE EFFECTS: NONE KNOWN; SKIN EFFECTS: NO HAZARD HAS BEEN RECOGNIZED. INGESTION EFFECTS: NONE KNOWN. INGESTION IS UNLIKELY AS PRODUCT IS A GAS AT ROOM TEMPERATURE. INHALATION EFFECTS: INHALATION CAUSES BREATHING DIFFICULTIES, CHEST PAINS AND NAUSEA. IT FORMS A HEMOGLOBIN COMPLEX, SIMILAR TO CARBON MONOXIDE, AND THUS, IS HIGHLY POISONOUS DUE TO INTERFERENCE WITH OXYGEN TRANSPORT IN BLOOD. EFFECTS OF OXYGEN DEFICIENCY RESULTING FROM SIMPLE ASPHYXIA SYMPTOMS MAY INCLUDE: RAPID BREATHING, DIMINISHED

Medical Condition Aggravated By Exposure:
N/P

First Aid:
EYES: NONE NORMALLY REQUIRED. SKIN: NONE NORMALLY REQUIRED. INGESTION: NONE NORMALLY REQUIRED. INHALATION: PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. VICTIMS SHOULD BE ASSISTED TO AN UNCONTAMINATED AREA AND INHALE FRESH AIR. QUICK REMOVAL FROM THE CONTAMINATED AREA IS MOST IMPORTANT. UNCONSCIOUS PERSONS SHOULD BE MOVED TO AN UNCONTAMINATED AREA AND, IF BREATHING HAS STOPPED, ADMINISTER AIR

Spill Release Procedures:
EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN USER'S EQUIPMENT, BE CERTAIN TO PURGE PIPING WITH INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CONTAINER OR CONTAINER VALVE, CONTACT CHEMTREC: 800-424-9300.

Neutralizing Agent:
N/P

Waste Disposal Methods:
DO NOT ATTEMPT TO DISPOSE OF RESIDUAL WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO A DEDICATED SPECIALTY GASES FOR PROPER DISPOSAL.

Fire and Explosion Hazard Information

Flash Point:
NONE

Flash Point Text:
NONE

Autoignition Temp:
NONE

Autoignition Temp Text:
NONE

Lower Limits:
NONE

Upper Limits:
NONE

Extinguishing Media:
USE ANY EXTINGUISHING MEDIA WHICH IS SUITABLE FOR THE SURROUNDING FIRE.

Fire Fighting Procedures:
FIRES SUPPORTED BY NITROGEN TRIFLUORIDE AS THE OXIDIZER GENERATE TOXIC FLUORIDE COMPOUNDS.

Unusual Fire/Explosion Hazard:
NONFLAMMABLE GAS. HOWEVER, IT MAY FORM FLAMMABLE OR EXPLOSIVE MIXTURES WITH GASEOUS FUELS. ABOVE 1830 F, IT SHOULD IGNITE MOST MATERIALS ON CONTACT.

Physical/Chemical Properties

Net Prop WT For Ammo:

Boiling Point:
=-128.7C, -200.F

B.P. Text:

Melt / Freeze Pt:
=-206.6C, -340.2F

M.P/F.P Text:

Decomp Temp:

Decomp Text:
N/P

Vapor Pres:
GAS, ABOVE CRIT. TEMP.

Vapor Density:
2.48

Volatile Org Content %:

Spec Gravity:
NOT AVAILABLE

VOC Pounds/Gallon:

PH: NOT AVAILABLE

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
NOT AVAILABLE

Solubility in Water:
SLIGHTLY

Appearance and Odor:
COLORLESS GAS, TRACE QUANTITIES OF IMPURITIES CAN IMPART A MUSTY OR PUNGENT ODOR

Percent Volatiles by Volume:
N/P

Corrosion Rate:
N/P

Reactivity Data:

Stability Indicator:
YES

Stability Condition To Avoid:
N/P

Materials To Avoid:
5 REACTS SIMILARLY TO OXYGEN UP TO TEMPERATURES OF 660 F IN THAT IT IS RELATIVELY INERT TOWARD MOST MATERIALS.
INCOMPATIBLE WITH PLASTICS, HYDROCARBONS AND OTHER ORGANIC MATERIALS.

Hazardous Decomposition Products:
TETRAFLUOROHYDRAZINE AND ACTIVE FLUORIDE RADICALS.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
N/P

Toxicological Information

Information:N/P

MSDS Transport Informa

Information:N/P

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Other Information:N/P