

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-120/12062-13-4.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

12062-13-4

Code:

M

RTECS:

Code:

X

Name:

NH4NBF*6 % WT: 0.24-2.4

Other REC Limits:

N/K

OSHA PEL:

N/K (FP N)

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

N/K (FP N)

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

Ventilation:

CHEMICAL FUME HOOD.

Protective Gloves:

4 IMPERVIOUS GLOVES (FP N).

Eye Protection:

ANSI APPROVED CHEM WORKERS GOGGLES (FP N).

Other Protective Equipment:

Equipment ANSI APPROVED EYE WASH DELUGE SHOWER (FP N). LAB COAT.

Work Hygienic Practices:

NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health:

MFR'S TRADE NAME/PART NO: STANDARD, 10,000 PPM OF NIOBIUM IN WATER WITH TRACES OF HF.

Health Hazards Data

LD50/LC50 Mixture:

NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

THIS SOLUTION MAY BE HARMFUL IF INGESTED, INHALED OR CONTACTED WITH THE SKIN OR EYES. IT MAY CAUSE IRRITATION UPON CONTACT WITH THE SKIN OR EYES. ACCUMULATION OF NIOBIUM IN THE BODY MAY HAVE ADVERSE EFFECTS ON THE LIVER. THIS SOLUTION IS NOT KNOWN TO CONTAIN ANY CHEMICAL LISTED AS A CARCINOGEN OR (EFTS OF OVEREXP)

Explanation Of Carcinogenicity:

NOT RELEVANT

Signs And Symptoms Of Overexposure:

HLTH HAZ: SUSPECTED CARCINOGEN AT A CONCENTRATION GREATER THAN 0.1% BY OSHA, IARC OR NTP.

Medical Cond Aggravated By Exposure:

NONE SPECIFIED BY MANUFACTURER.

First Aid:

EYES: FLUSH W/WATER FOR AT LEAST 15 MINUTES OCCASIONALLY LIFTING UPPER & LOWER EYELIDS. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH W/WATER FOR AT LEAST 15 MINUTES. INGEST: GIVE LARGE AMOUNTS OF WATER TO DILUTE. GET MEDICAL ATTENTION IMMEDIATELY. IF THE VICTIM IS CONSCIOUS, GIVE LARGE AMOUNTS OF WATER OR MILK. INHAL: MOVE TO FRESH AIR. IF IRRITATION CONTINUES, GET MEDICAL ATTENTION IMMEDIATELY.

Spill Release Procedures:

VENTILATE AREA. PUT IN A SELAED CONTAINER FOR DISPOSAL. WEAR SAFETY GLASSES, PROTECTIVE GLOVES AND PROTECTIVE CLOTHING.

Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:

3 CONTACT LOCAL HAZARDOUS OR CHEMICAL WASTE DISPOSAL AGENCY FOR FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions:

STORE IN A DRY, COOL ENVIRONMENT. KEEP TIGHTLY SEALED WHEN NOT IN USE.

Other Precautions:

MUST BE STORED IN PLASTIC OR TEFLON CONTAINERS BECAUSE THE SOLUTION MAY ATTACK GLASS CONTAINERS.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

Flash Point Text:

N/A

Autoignition Temp:

Autoignition Temp Text:

N/A

Lower Limits:

N/K

Upper Limits:

N/K

Extinguishing Media:

APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures:

USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard:

NONE. NOT COMBUSTIBLE.

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:

N/K

Melt/Freeze Pt:

M.P./F.P. Text:

N/K

Decomp Temp:

Decomp Text:

N/K

Vapor Pres:

N/K

Vapor Density:

N/K

Volatile Org Content %:

Spec Gravity:

APPROX 1

VOC Pounds/Gallon:

VOC Grams/Liter:

PH:

N/K

Nicosity:

N/K

Evaporation Rate & Reference:

N/K

SOLUBILITY IN WATER:

SOLUBILITY:

TRANSPARENCE AND ODOR:

WITHOUT AN ODOR. 5

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid:

ACIDS, GLASS. THIS SOLUTION MAY BE DESTRUCTIVE TO GLASS. AVOID CONTACT.

Hazardous Decomposition Products:

WILL RELEASE TOXIC FLUORINE VAPORS AND GAS.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

NOT RELEVANT

Toxicological Information

Information:

N/P

MSDS Transport Information

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



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