

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-169/16921-91-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
16921-91-8

**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
NITROSONIUM HEXAFLUOROPHOSPHATE

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K

**Code:**  
M N/P

**ACGIHSTEL:**  
EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem

**Code:**  
1 ACGIH STEL:

## Control Measures

**Respiratory Protection:**  
NIOSH/MSHA APPROVED HIGH EFFICIENCY PARTICULATE RESPIRATOR FOR ORDINARY USE & SCBA FOR EMERGENCY USE.

**Ventilation:**  
SPECIAL: GLOVE BOX/BAG W/DRY INERT ATMOSPHERE.

**Protective Gloves:**  
POLYVINYL CHLORIDE/NEOPRENE

**Eye Protection:**  
CHEMICAL SAFETY GOGGLES

**Other Protective Equipment:**  
Equipment LAB COAT &APRON, FLAME &CHEMICAL RESISTANT COVERALLS, EYEWASH, SAFETY DRENCH SHOWER &HYGIENIC FACILITIES FOR WASHING.

**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER USE.

**Supplemental Safety and Health:**  
N/K

## Health Hazards Data

**LD50LC50Mixture:**  
N/P

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
INORGANIC FLUORIDES ARE HIGHLY IRRITATING & TOXIC. CORROSIVE EFFECTS RESULTING FORM EXPOSURE ARE DUE TO HYDROGEN FLUORIDE. AN IRRITANT TO EYES, SKIN & MUCOUS MEMBRANES. INGESTION/INHALATION: TOXIC.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
INORGANIC FLUORIDES ARE HIGHLY IRRITATING & TOXIC.CORROSIVE EFFECTS RESULTING FROM EXPOSURE ARE DUE TO HYDROGEN FLUORIDE. AN IRRITANT TO EYES, SKIN & MUCOUS MEMBRANES. INGESTION/INHALATION: TOXIC.

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
INHALATION: REMOVE TO FRESH AIR. EYES: FLUSH W/COPIOUS AMOUNTS OF WATER FOR 15 MINS. SKIN: FLOOD W/LARGE VOLUMES OF WATER FOR 15 MINS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
WEAR FULL PROTECTIVE CLOTHING & RESPIRATORY PROTECTION, ELIMINATE ALL SOURCES OF IGNITION. COVER W/DRY SAND/DRY VERMICULITE, MIX WELL & CAREFULLY TRANSFER TO A WELL MARKED CONTAINER. CLOSE CONTAINER T IGMTLY. SUBMIT/RETAIN FOR DISPOSAL.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN A COOL, DRY WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED.

**Other Precautions:**  
AVOID CONTACT W/SKIN, EYES & CLOTHING. AVOID CONTACT W/STRONG ACIDS.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P 2

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
USE WATER, CO2, DRY CHEMICAL EXTINGUISHING AGENTS, DRY SAND, DRY GROUND DOLOMITE.

**Fire Fighting Procedures:**  
WEAR NIOSH/MSHA APPROVED SCBA, FLAME & CHEMICAL RESISTANT CLOTHING, HATS, BOOTS & GLOVES.

**Unusual Fire/Explosion Hazard:**  
NONFLAMMABLE. CONTAMINATED WATER/MATERIAL RUNOFF MAY POLLUTE WATER SUPPLY.

## 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:**  
N/K 3

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
N/K

**Appearance and Odor:**  
COLORLESS CRYSTALLINE SOLID W/STRONG ODOR

**Percent Volatiles by Volume:**  
N/R

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
MOISTURE, HEAT.

**Materials To Avoid:**  
STRONG ACIDS, WATER, MAGNESIUM.

**Hazardous Decomposition Products:**  
TOXIC LIQUID/VAPORS OF CAUSTIC HYDROGEN FLUORIDE, NITROGEN DIOXIDE FUMES.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/R

## 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