

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-120/12034-80-9.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
12034-80-9

**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
NIOBIUM SILICIDE

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
WEAR A NIOSH-APPROVED HIGH EFFICIENCY PARTICLE RESPIRATOR.

**Ventilation:**  
LABORATORY FUME HOOD

**Protective Gloves:**  
RUBBER OR NEOPRENE

**Eye Protection:**  
SAFETY GLASSES WITH SIDE SHIELD/GOGGLES

**Other Protective Equipment:**  
Equipment EYE WASH STATION, SAFETY SHOWER, PROTECTIVE CLOTHING AND/OR UNIFORM

**Work Hygienic Practices:**  
OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH BEFORE EATING OR DRINKING.

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

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL, RAT) IS NOT KNOWN.

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

**Skin:**  
NO

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
TARGET ORGANS:EYE, SKIN, RESPIRATORY & GI TRACTS. ACUTE- MAY CAUSE EYE, SKIN, RESPIRATORY TRACT IRRITATION. INGESTION UNKNOWN. CHRONIC- UNKNOWN.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
IRRITATION

**Medical Cond Aggravated By Exposure:**  
PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

**First Aid:**  
GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:IF CONSCIOUS, RINSE OUT MOUTH WITH WATER. SEEK MEDICAL ATTENTION.

**Spill Release Procedures:**  
WEAR FULL PROTECTIVE EQUIPMENT. COVER SPILL WITH DRY SAND OR VERMICULITE. MIX WELL AND CAREFULLY TRANSFER TO A CONTAINER FOR DISPOSAL.

**Neutralizing Agent:**  
NOT RELEVANT

**Waste Disposal Methods:**  
CONSULT LOCAL, STATE AND FEDERAL REGULATIONS.

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

**Other Precautions:**  
DO NOT RAISE DUST. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID INHALATION OF DUST. WASH THOROUGHLY AFTER HANDLING MATERIAL. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/R

**Lower Limits:**  
NOT RELEVANT

**Upper Limits:**  
NOT RELEVANT

**Extinguishing Media:**  
DRY SAND OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

**Fire Fighting Procedures:**  
WEAR PROTECTIVE CLOTHING, INCLUDING HELMET AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

**Unusual Fire/Explosion Hazard:**  
UNKNOWN

## Physical/Chemical Properties

**HCC:**  
N1

**NRC/State LIC No:**  
NOT RELEVANT

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/R

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
3524F,1940C

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN 3

**Vapor Pres:**  
N/R

**Vapor Density:**  
N/R

**Volatile Org Content %:**

**Spec Gravity:**  
5.37

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
NOT RELEVANT

**Evaporation Rate & Reference:**  
NOT RELEVANT

**Solubility in Water:**  
INSOLUBLE

**Appearance and Odor:**  
POWDER

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

**Corrosion Rate:**  
N/R

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
EXCESSIVE HEAT

**Materials To Avoid:**  
UNKNOWN

**Hazardous Decomposition Products:**  
UNKNOWN

**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