

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-901/9016-87-9.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
9016-87-9

**Code:**  
M

**RTECS:**  
TR0350000

**Code:**  
M

**Name:**  
POLYMETHYLENE POLYPHENYLENE POLYISOCYANATE

**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:**  
NIOSH/OSHA APPROVED ORGANIC VAPOR-TYPE RESPIRATOR RECOMMENDED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.

**Ventilation:**  
BY LAW, THE EXPOSURE MUST BE REDUCED TO OR BELOW THE PEL. IF NECESSARY, CONSULT A SPECIALIST FOR THE PROPER VENTILATION.

**Protective Gloves:**  
RUBBER OR NEOPRENE

**Eye Protection:**  
SPLASH GOGGLES

**Other Protective Equipment:**  
Equipment 4 USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL.

**Work Hygienic Practices:**  
NONE SPECIFIED BY MANUFACTURER.

**Supplemental Safety and Health:**  
KEY 1: HCC-F3.

## Health Hazards Data

**LD50LC50Mixture:**  
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:**  
EYES: MAY CAUSE IRRITATION. SKIN: MAY CAUSE IRRITATION OR SENSITIZATION. INHALATION: MAY CAUSE RESPIRATORY IRRITATION OR CENTRAL NERVOUS SYSTEM DEPRESSION. SYMPTOMS COULD BE IMMEDIATE OR DELAYED AND INCLUDE CHEST TIGHTNESS, RESPIRATORY DISTRESS, OR ASTHMATIC ATTACK. MAY CAUSE HEADACHE, NAUSEA, DIZZINESS, FATIGUE.

**Explanation Of Carcinogenicity:**  
THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, REPRODUCTIVE HARM.

**Signs And Symptions Of Overexposure:**  
SEE HEALTH HAZARDS

**Medical Cond Aggravated By Exposure:**  
NONE SPECIFIED BY MANUFACTURER.

**First Aid:**  
EYES: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. SKIN: WASH WELL WITH SOAP AND WATER. INHALATION: REMOVE PERSON TO FRESH AIR AND GET MEDICAL ATTENTION. INGESTION: GET MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL.

**Spill Release Procedures:**  
SECURE IGNITION SOURCES. WEAR PROTECTIVE EQUIPMENT. DIKE, IF NECESSARY TO PREVENT SPREAD OF SPILL. COVER AND CONTAIN SPILL WITH ABSORBENT MATERIAL. USE NON-SPARKING TOOLS. PUMP 3 DIKED MATERIAL AND SCOOP ABSORBED MATERIAL INTO CONTAINER(S) FOR DISPOSAL

**Neutralizing Agent:**  
NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**  
DISPOSE OF IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE/PROVINCIAL AND LOCAL STATUS REGARDING THE MANAGEMENT, USE, HANDLING, TREATMENT, STORAGE, DISPOSAL AND TRANSPORTATION OF HAZARDOUS WASTE.

**Handling And Storage Precautions:**  
FLAMMABLE. KEEP FROM HEAT, SPARKS AND FLAME. USE APPROPRIATE GROUNDING EQUIPMENT WHILE HANDLING THIS MATERIAL.

**Other Precautions:**  
STORE INDOORS IN TIGHTLY CLOSED CONTAINERS. STORE BETWEEN 50F AND 95F.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
SCC

**Flash Point:**  
=-11.1C, 12.F

**Flash Point Text:**  
12F,-11C

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
CARBON DIOXIDE, DRY CHEMICAL, FOAM

**Fire Fighting Procedures:**  
FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED, BREATHING APPARATUS.

**Unusual Fire/Explosion Hazard:**  
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BY VENTILATION TO IGNITION SOURCES FAR FROM MATERIAL HANDLING POINT. EXTREMELY FLAMMABLE.

## Physical/Chemical Properties

**HCC:**  
F2

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**  
=56.1C, 133.F

**B.P. Text:**  
133F,56C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/R

**Decomp Temp:**

**Decomp Text:**  
N/A

**Vapor Pres:**  
104

**Vapor Density:**  
>1 (AIR=1)

**Volatile Org Content %:**

**Spec Gravity:**  
1.02

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
N/P

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

**Solubility in Water:**  
PARTIAL

**Appearance and Odor:**  
BLACK LIQUID WITH KETONE ODOR.

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

**Corrosion Rate:**  
N/P

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
NONE SPECIFIED BY MANUFACTURER.

**Materials To Avoid:**  
STRONG OXIDIZERS

**Hazardous Decomposition Products:**  
CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, FUMES.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NONE SPECIFIED BY MANUFACTURER.

## 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