

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-257/25765-47-3.html> for suppliers of this product.

## Composition/Information on Ingredient

### Cas:

25765-47-3

### Code:

F

### RTECS:

### Code:

X

### Name:

POLY(ISOPHTHALOYLCHLORIDE/M-PHENYLENEDIAMINE)(NOM)

### Other REC Limits:

NOT ESTABLISHED

### OSHA PEL:

NOT ESTABLISHED

### Code:

M

### OSHA STEL:

ACGIH TLV: NOT ESTABLISHED

### Code:

2 OSHA STEL:

### ACGIH TLV:

NOT ESTABLISHED

### Code:

M

### ACGIH STEL:

N/P

### Code:

## Control Measures

### Respiratory Protection:

WHERE AIR BORNE DUST AND FIBRIL CONCENTRATIONS ARE EXPECTED TO EXCEED APPLICABLE EXPOSURE LIMITS, OR WHERE THERE IS POTENTIAL FOR IRRITATION OF NASAL PASSAGES BY THE MECHANICAL ACTION OF THE FIBERS, NIOSH-APPROVED RESPIRATORS SHOULD BE USED. AN AIR-PURIFYING RESPIRATOR WITH DUST/MIST/FUME CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES.

**Ventilation:**  
IF FUMES/FIBER FLY/DUST ARE GENERATED, USE ENGINEERING CONTROLS WHENEVER NECESSARY TO CONTROL EXPOSURES BELOW APPLICABLE LIMITS.

### Protective Gloves:

NONE REQUIRED.

### Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS

### Other Protective Equipment:

Equipment ISOLATION, ENCLOSURES, EXHAUSTS, VENTILATION, WETTING AND DUST COLLECTION SYSTEMS MAY BE USED.

### Work Hygienic Practices:

DO NOT CONSUME FOOD, DRINK, OR OTHER TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.

### Supplemental Safety and Health:

\*DISPOSABLE DUST MASKS (3M MODEL N95 8210, OR EQUIVALENT) MAY ALSO BE USED. WHEN NOMEX IS USED AT ELEVATED TEMPERATURES, OR IN A WAY THAT MIGHT CREATE AIRBORNE DMAC OR DECOMPOSITION PRODUCTS IN EXCESS OF APPLICABLE EXPOSURE LIMITS, WEAR NIOSH-APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATORS.

## Health Hazards Data

### LD50/LC50 Mixture:

NO DATA PROVIDED BY RESPONSIBLE PARTY.

### Route Of Entry/Inds - Inhalation:

N/P

### Skin:

N/P

### Ingestion:

N/P

### Carcinogenicity/Inds - NTP:

NO

### IARC:

NO

### OSHA:

NO

### Health Hazards Acute And Chronic:

EYE: FIBER FLY AND DUST MAY CAUSE SLIGHT MECHANICAL IRRITATION. NOMEX AND KEVLAR ARE UNTESTED FOR EYE IRRITANCY. SKIN: NEITHER NOMEX OR KEVLAR CAUSE SENSITIZATION (ALLERGIC REACTION) AND HAVE LITTLE POTENTIAL FOR SKIN IRRITATION.

CONTINUAL RUBBING OF FIBERS OR FIBER PIECES ON THE SKIN MAY CAUSE SKIN IRRITATION. INGESTION: NOMEX AND KEVLAR ARE NONTOXIC WHEN EATEN. INHALATION: NOMEX AND KEVLAR FIBERS ARE TOO BIG TO INHALE INTO THE LUNGS, BUT FIBER DUST AND FLY FROM PROCESSING MAY BE BREATHED.

### Explanation Of Carcinogenicity:

NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NTP, OSHA, ACGIH AS A CARCINOGEN. CARBON BLACK IS LISTED BY IARC AS 2B-POSSIBLE HUMAN CARCINOGEN.

### Signs And Symptoms Of Overexposure:

EYE/SKIN: IRRITATION. INHALATION: UPPER RESPIRATORY IRRITATION OR COLD-LIKE SYMPTOMS.

### Medical Cond Aggravated By Exposure:

NO DATA PROVIDED BY RESPONSIBLE PARTY.

### First Aid:

INHALATION: IF LARGE AMOUNTS OF FUMES, DUST OR FIBERS ARE INHALED, REMOVE TO FRESH AIR. IF PERSISTENT COUGH OR OTHER SYMPTOMS DEVELOP, GET MEDICAL ATTENTION. IF EXPOSED TO EXCESSIVE LEVELS OF DMAC, REMOVE TO FRESH AIR AND GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING/ GLOVES BEFORE REUSE. USE HAND CREAMS TO SOOTHE AND MOISTEN IRRITATED SKIN. GET MEDICAL ATTENTION IF IRRITATION PERSISTS AFTER CONTACT SS.

INGESTION: NOT A PROBABLE ROUTE. HOWEVER, IN CAS

### Spill Release Procedures:

7 USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WASH, SHOVEL OR MOP UP FIBERS AND PLACE IN SOLID WASTE CONTAINERS. AVOID THE USE OF DRY SWEEPING OR AIR JET BLOWING OF FIBERS AND DUST; THESE CAN RE-SUSPEND RESPIRABLE DUST IN THE AIR. CLEAN UP DUSTS CONTAINING KEVLAR FIBERS WITH HIGH EFFICIENCY PARTICULATE AIR (HEPA) FILTERED VACUUM EQUIPMENT, BY WIPING OR BY WET CLEANING.

### Neutralizing Agent:

NO DATA PROVIDED BY RESPONSIBLE PARTY.

### Waste Disposal Methods:

WASTE MATERIALS OF NOMEX AND KEVLAR MAY BE TREATED, STORED, TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS GOVERNING THE DISPOSAL OF OTHER COMMON AND NON-RCARA REGULATED WASTE MATERIALS.

### Handling And Storage Precautions:

DO NOT TOUCH MOVING THREADLINES OF NOMEX/KEVLAR. ENTANGLEMENT WITH THIS HIGH STRENGTH YARN CAN SEVERELY CUT, OR EVEN SEVER FINGERS. NOMEX/KEVLAR ARE DEGRADED BY ULTRA-VIOLET LIGHT. DO NOT STORE IN DIRECT SUNLIGHT. FLUORESCENT LIGHTING WILL CAUSE DISCOLORATION, BUT WILL NOT AFFECT FIBER PROPERTIES.

### Other Precautions:

USE ONLY WITH ADEQUATE VENTILATION. AVOID DUST GENERATION. DO NOT CONSUME FOOD, DRINK, OR OTHER TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.

## Fire and Explosion Hazard Information

### Flash Point Method:

N/P

### Flash Point:

### Flash Point Text:

NOT APPLICABLE

### Autoignition Temp:

N/A

### Autoignition Temp Text:

N/A

### Lower Limits:

N/A

### Upper Limits:

N/A

### Extinguishing Media:

CARBON DIOXIDE (CO2) OR DRY CHEMICAL

### Fire Fighting Procedures:

KEEP PERSONNEL REMOVED AND UPWIND OF FIRE. WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT (FULL BUNKER GEAR.)

### Unusual Fire/Explosion Hazard:

8 NOMEX & KEVLAR FIBER DUSTS ARE NOT AN EXPLOSION HAZARD. BURNING NOMEX & KEVLAR PRODUCE HAZARDOUS GASES SIMILAR TO THOSE FROM WOOL; MOSTLY CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES & SMALL AMOUNTS OF HYDROGEN CYANIDE, AMMONIA, ALDEHYDES, ALIPHATIC HYDROCARBONS & OTHER TOXIC GASES DEPENDING ON BURN CONDITIONS.

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## Physical/Chemical Properties

### HCC:

N1

### NRC/State IC No:

N/P

### Net Prop WT For Ammo:

9

### Boiling Point:

N/A

### B.P. Text:

N/A

### Melt/Freeze Pt:

N/A

### M.P./F.P. Text:

DOES NOT MELT.

### Decomp Temp:

=200°C, 392°F

### Decomp Text:

N/A

### Vapor Pres:

N/A

### Vapor Density:

N/A

### Volatile Org Content %:

N/A

### Spec Gravity:

1.38G/CC</p