

# MATERIAL SAFETY DATA SHEET

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## SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

### MANUFACTURER:

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### PRODUCT TRADE NAME:

MINAPACK

## SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

**CHEMICAL NAME** : Polyethylene 99wt% Min.

**CAS No.** : 9002-88-4 (Polyethylene)

**OTHERS** : OSHA Hazards Ingredients (29 CFR 1910.1200): none

## SECTION 3 HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Skin contact of molten polymer causes thermal burn.

### POTENTIAL HEALTH EFFECTS:

**INHALATION** : Inhalation of decomposed polymer gas may cause irritation.

**EYE CONTACT** : Particles may scratch eye surface or cause mechanical irritation.  
Contact with molten polymer causes thermal burn.

**SKIN CONTACT** : Contact with molten polymer causes thermal burn.

**INGESTION** : no toxic effect observed

**CARCINOGENCITY:** Polyethylene is listed by IARC 3.

## SECTION 4 FIRST AID MEASURES

### INHALATION:

If inhalation of decomposed gas, remove from exposure area to fresh air immediately.  
Perform artificial respiration if necessary.  
Keep person warm and at rest. Get medical attention immediately.

### EYE CONTACT:

Wash eyes immediately with large amounts of water occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes).  
Get medical attention if irritation persists.

### SKIN CONTACT:

If molten polymer gets on skin, cool rapidly with cold water.  
Do not attempt to peel polymer from skin.  
Get immediate medical attention for a thermal burn.

### INGESTION:

If vomiting occurs, keep head lower than hips to help prevent aspiration.  
Get medical attention if needed.

### NOTE TO PHYSICIAN:

Treat symptomatically and supportively.

## SECTION 5 FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

**FLASH POINT** : not applicable

**METHOD USED** : not applicable

**FLAMMABLE LIMITS:** LEL: not applicable  
UEL: not applicable

### EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, water spray or regular foam.

### FIRE-FIGHTING EQUIPMENT:

Wear full bunker gear including a positive pressure self-contained breathing apparatus in any closed space.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

Wear protective equipment; prevent skin contact with molten polymer.

### ENVIRONMENTAL PRECAUTIONS:

Prevent the material from reaching sewage system.

### METHOD FOR CLEANING/COLLECTING:

Sweep and clean with broom . At that time, slippage, can cause falls if walked on.

## SECTION 7 HANDLING AND STORAGE

**HANDLING** : In the case of treating molten polymer, use the protective gloves and safety glasses.  
Avoid contact with eyes.  
Avoid breathing dust.

**STORAGE** : Store in a dry place away from excessive heat and ignition sources.

## SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

Polyethylene polymer: Not established for product as whole

### ENGINEERING CONTROLS:

Provide local exhaust ventilation.

### RESPIRATORY PROTECTION:

For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved dust respirator.

### SKIN PROTECTION:

Protective gloves and long sleeve shirt are required when handling hot polymer.

### EYE PROTECTION:

Use safety glasses.

If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles.

<b>SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>APPEARANCE</b>	: white or colored foam sheet
<b>ODOR</b>	: none
<b>MELTING POINT</b>	: 100–135°C (212–275° F)
<b>BOILING POINT</b>	: not applicable
<b>VAPOR PRESSURE</b>	: not applicable
<b>VAPOR DENSITY</b>	: not applicable
<b>SOLUBILITY IN WATER</b>	: insoluble
<b>SPECIFIC GRAVITY</b>	:
<b>AUTOIGNITION TEMPERATURE:</b>	400°C (752° F) (Average particle size; 24µm) 440°C (824° F) (Average particle size; 106µm)
<b>SECTION 10 STABILITY AND REACTIVITY</b>	
<b>CHEMICAL STABILITY:</b>	Stable under recommended conditions of storage and handling.
<b>DECOMPOSITION:</b>	Hazardous gases/vapors produced are formaldehyde and acrolein and CO.
<b>CONDITIONS TO AVOID:</b>	Avoid contact with strong oxidizers, excessive heat, sparks, or open flame.
<b>INCOMPATIBILITIES:</b>	Strong oxidizing agents
<b>HAZARDOUS POLYMERIZATION:</b>	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
<b>SECTION 11 TOXICOLOGICAL INFORMATION</b>	
<b>ACUTE TOXICITY:</b>	Rats which were fed 7.95g/kg showed no toxic reactions and gained weight normally.
<b>CARCINOGEN STATUS:</b>	Polyethylene: Animal Inadequate Evidence (IARC Group-3)
<b>SECTION 12 ECOLOGICAL INFORMATION</b>	
no data available	
Never dump or discharge this substance into ocean or any other body of water, to avoid ingestion by marine life or birds.	
<b>SECTION 13 DISPOSAL CONSIDERATIONS</b>	
<b>WASTE DISPOSAL:</b>	Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local law and regulations.
<b>SECTION 14 TRANSPORT INFORMATION</b>	
<b>D. O. T. SHIPPING NAME</b>	: none
<b>D. O. T. HAZARD CLASS</b>	: none
<b>D. O. T. LABEL</b>	: none

**SECTION 15 REGULATORY INFORMATION**

**OSHA STATUS:** Not hazardous by definition of Hazard Communication Standards(29 CFR 1900.1200).

**TSCA STATUS:** on TSCA INVENTORY

**CERCLA REORTABLE QUANTITY (40CFR117, 302):** none

**SARA TITLE III**

SECTION 302(40CFR355 EXTREMELY HAZARDOUS SUBSTANCES) : none

SECTION 311, 312(40CFR370 HAZARD CATEGORY) : none hazardous

SECTION 313(40CFR372 TOXIC CHEMICALS) : none

**SECTION 16 OTHER INFORMATION**

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