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Dow U.S.A.

The Dow Chemical Company  
Midland, Michigan 48674

# Material Safety Data Sheet

Dow Chemical U.S.A.\* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 24267

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Product Name: POLYETHYLENE HIGH DENSITY 08354N

Effective Date: 01/25/93 Date Printed: 01/29/93

MSDS:002101

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## 1. INGREDIENTS: (% w/w, unless otherwise noted)

Copolymer of ethylene and Octene-1 CAS# 026221-73-8 100%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

## 2. PHYSICAL DATA:

BOILING POINT: Not applicable  
VAP PRESS: Not applicable  
VAP DENSITY: Not applicable  
SOL. IN WATER: Nil  
SP. GRAVITY: 0.91 - 0.97  
APPEARANCE: Translucent white, solid pellets or granules.  
ODOR: No odor.

## 3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: Not applicable  
METHOD USED: Not applicable

FLAMMABLE LIMITS  
LFL: Not applicable  
UFL: Not applicable

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical. General purpose synthetic foams (including AFFF type) or protein foams may be used. Alcohol resistant foams (ATC type) may be also function.

FIRE & EXPLOSION HAZARDS: Soak thoroughly with water to cool and prevent reignition. Dense smoke emitted when burned without sufficient oxygen. Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying composition in addition to unidentified toxic and/or irritating compounds. Hazardous combustion by-products may include and are not limited to carbon monoxide, carbon dioxide.

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### 3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

**FIRE-FIGHTING EQUIPMENT:** Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves.)

### 4. REACTIVITY DATA:

**STABILITY:** (CONDITIONS TO AVOID) Temperatures over 572F. 300C will release combustible gases.

**INCOMPATIBILITY:** (SPECIFIC MATERIALS TO AVOID) None.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products depend on temperature, other materials present and air supply. During thermal processing this material can degrade to produce trace hydrocarbons, aldehydes, organic acids, and alcohols in limited quantities. Complete combustion results in carbon dioxide and water.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### 5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

**ACTION TO TAKE FOR SPILLS/LEAKS:** Sweep up and discard.

**DISPOSAL METHOD:** Bury in landfill or burn in an adequate incinerator in accordance with applicable local, state, and federal regulations.

### 6. HEALTH HAZARD DATA:

**EYE:** Solid or dust may cause irritation or corneal injury due to mechanical action.

**SKIN CONTACT:** Essentially nonirritating to skin. Mechanical injury only.

**SKIN ABSORPTION:** A single prolonged skin exposure is not likely to result in the material being absorbed through skin in harmful amounts.

**INGESTION:** May cause choking if swallowed. Single dose oral toxicity is believed to be very low. Considered physiologically inert.

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## 6. HEALTH HAZARD DATA: (CONTINUED)

INHALATION: Vapors are unlikely due to physical properties.  
Single exposure to dust is not likely to be hazardous.

SYSTEMIC & OTHER EFFECTS: No relevant information found.

## 7. FIRST AID:

EYES: Irrigate immediately with water for at least 5 minutes.  
Mechanical irritation only.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effects anticipated by this route of  
exposure incidental to proper industrial handling.

INHALATION: No adverse effects anticipated by this route of  
exposure incidental to proper industrial handling.

## 8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient.

RESPIRATORY PROTECTION: No respiratory protection should be  
needed.

SKIN PROTECTION: No precautions other than clean body-covering  
clothing should be needed.

EYE PROTECTION: Use safety glasses.

## 9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:  
Mechanical handling equipment can cause formation of dusts.  
Maintain good housekeeping. Dust layers should not be permitted  
to accumulate in order to avoid any potential for dust explosion  
hazards.

MSDS STATUS: Revised section 3, 4, 9, and Regulatory Information.

For information regarding state/provincial and federal regulations see  
The Regulatory Information Section.  
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