The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

ENG001 Revised 10-MAY-2002

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Product Name ENGAGE* 8130 Polyolefin Elastomer.

"ENGAGE" is a registered trademark of The Dow Chemical Company

Company Identification

The Dow Chemical Company
2030 Willard H. Dow Center
Midland, MI 48674
USA

PHONE NUMBERS
Customer Information Number: 800-258-2436
Emergency Telephone Number: 989-636-4400

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
COPOLYMER OF ETHYLENE AND OCTENE-1	26221-73-8	100

Components (Remarks)

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Potential Health Effects
EFFECTS OF OVEREXPOSURE:

EYE CONTACT:
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 the skin in harmful amounts.

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

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

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION
No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

SKIN CONTACT
The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.

EYE CONTACT
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

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INGESTION
No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

FIRE FIGHTING MEASURES

Flammable Properties

Dense smoke emitted when burned without sufficient oxygen. Accumulation of fine dust particles could pose explosion hazard.

Dust forms explosive mixture with air.

Hazardous gases/vapors produced in fire are combustible gases.

Extinguishing Media

Water Fog, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures

Sweep up and discard.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

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Storage

Store in a well ventilated place. Keep container tightly closed.

Store in a manner that material is not exposed to ultra violet light.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Keep container tightly closed. Use static controls. Static charges can build up and ignite dust or solvent laden atmospheres.

Use ventilation that is adequate to keep employee exposure to airborne concentrations below recommended exposure limits.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material. A full face mask respirator provides protection from eye irritation.

RESPIRATORS

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge with a dust/mist filter may be permissible under

certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING

If there is potential contact with hot/molten material, wear heat resistant clothing and footwear.

Exposure Guidelines

Exposure Limits
PEL (OSHA) : Particulates (Not Otherwise Regulated)
15 mg/m3, 8 Hr. TWA, total dust
5 mg/m3, 8 Hr. TWA, respirable dust

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PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Solubility in Water	: Nil
Odor	: Odorless
Form	: Pellets or granules (solid)
Color	: Translucent white
Specific Gravity	: 0.84-0.97

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Temperatures above 300 C (572 F) .

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition temperature: >300 C (>572 F)

Hazardous gases/vapors produced are hydrocarbons, aldehydes, organic acids and alcohols in limited quantities.

Polymerization

Polymerization will not occur.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

No information is available. Toxicity is expected to be low based on insolubility in water.

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DISPOSAL CONSIDERATIONS

Waste Disposal

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

TRANSPORTATION INFORMATION

Shipping Information

DOT
Proper Shipping Name : Not regulated.

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : In compliance with TSCA Inventory requirements for commercial purposes.

State Regulations (U.S.)

STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet.

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES): None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1 % OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): None known.

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OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating
Health : 0
Flammability : 1
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS