



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

DuPont  
Material Safety Data Sheet

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POLYETHYLENE RESINS ALL IN SYNONYM LIST DPE018  
DPE018 Revised 5-AUG-2003  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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# Tradenames and Synonyms

DPE 20, 20-6064, 2010, 2020, 2020T,

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont Packaging & Industrial Polymers  
1007 Market Street  
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-(800)-441-7515  
Transport Emergency : 1-(800)-424-9300  
Medical Emergency : 1-(800)-441-3637

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
ETHYLENE HOMOPOLYMER	9002-88-4	>99

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.

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HAZARDS IDENTIFICATION  
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Potential Health Effects

ADDITIONAL HEALTH EFFECTS

Before using DuPont Polyethylene Resins, read the bulletin on the safe handling of these polymers.

ACUTE OR IMMEDIATE EFFECTS: ROUTES OF ENTRY AND SYMPTOMS

INGESTION Not a probable route of exposure. The LD-50 in rats of one type of polyethylene is 8 grams/kilogram body weight; this classifies polyethylene as having low toxicity. Ninety day feeding tests at the 5% level in rats produced no adverse effects.

## (HAZARDS IDENTIFICATION - Continued)

**SKIN** Animal tests with polyethylene showed no evidence for skin irritation or sensitization. No dermatitis problem is expected from routine handling of the polymer. Molten polymer contacting the skin will cause thermal burns.

**EYE** Mechanical irritation only.

**INHALATION** Polyethylene pellets are not respirable as sold. At processing temperatures above 325 C (617 F), fumes irritating to the eyes, nose and throat may be produced. This exposure may result in redness, tearing and itching of the eyes and soreness in the nose and throat together with coughing.

## 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.

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FIRST AID MEASURES  
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## First Aid

## INHALATION

If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician.

## SKIN CONTACT

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable. If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material 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.

## INGESTION

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

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Flash Point : 341-365 C (646-689 F)  
Method : ASTM D1929

## Fire and Explosion Hazards:

UNUSUAL FIRE, EXPLOSION HAZARDS The solid polymer can be combusted only with difficulty. An electrostatic charge can potentially build up when pouring pellets. Grounding of equipment is recommended.

HAZARDOUS COMBUSTION PRODUCTS Complete combustion gives carbon dioxide and water. Incomplete combustion gives in addition carbon monoxide, organic acids, aldehydes and alcohols.

## Extinguishing Media

Water, Foam, Dry Chemical, CO2.

## Fire Fighting Instructions

Wear self-contained breathing apparatus (SCBA) and full protective equipment.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

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

## Spill Clean Up

Sweep up to avoid slipping hazard.

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HANDLING AND STORAGE  
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## Handling (Personnel)

See FIRST AID and PERSONAL PROTECTIVE EQUIPMENT SECTIONS.

## Storage

Store in a cool, dry place. Keep container closed to prevent contamination.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

VENTILATION: Local ventilation should be used over processing equipment.

## 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.

## 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. 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

POLYETHYLENE RESINS ALL IN SYNONYM LIST DPE018

PEL (OSHA) : Particulates (Not Otherwise Regulated)  
15 mg/m<sup>3</sup>, 8 Hr. TWA, total dust  
5 mg/m<sup>3</sup>, 8 Hr. TWA, respirable dust

## Other Applicable Exposure Limits

ETHYLENE HOMOPOLYMER

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established  
AEL \* (DuPont) : 10 mg/m<sup>3</sup>, 8 & 12 Hr. TWA, total dust  
5 mg/m<sup>3</sup>, 8 & 12 Hr. TWA, respirable dust

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Melting Point	: 110-140 C (230-284 F)
% Volatiles	: NA
Solubility in Water	: Negligible
Odor	: Mild hydrocarbon
Form	: Pellets
Color	: White
Specific Gravity	: 0.90-0.98

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable at normal temperatures and storage conditions.

## Conditions to Avoid

Temperatures above 325 C (617 F) .

## Incompatibility with Other Materials

None reasonably foreseeable.

## Decomposition

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes and alcohols.

## Polymerization

Polymerization will not occur.

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ECOLOGICAL INFORMATION  
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## 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  
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## 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,

## (DISPOSAL CONSIDERATIONS - Continued)

state/provincial, and local regulations.

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT  
Proper Shipping Name : Not regulated

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REGULATORY INFORMATION  
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## 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  
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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.

Responsibility for MSDS : T. P. PRICE  
DUPONT PACKAGING & INDUSTRIAL POLYMERS  
Address : CHESTNUT RUN PLAZA 713  
WILMINGTON, DE 19880-0713  
Telephone : 302-999-4664

# Indicates updated section.

(Continued)

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