

CAS No: 9002-88-4  
RTECS No: TQ3325000

Ethene, homopolymer  
Ethylene polymers  
PE  
HDPE  
LDPE  
(C<sub>2</sub>H<sub>4</sub>)<sub>n</sub>  
Molecular mass: Polymer, variable molecular mass

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	

EXPOSURE			
<b>Inhalation</b>	Cough.	Avoid inhalation of dust.	Fresh air, rest.
<b>Skin</b>			Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>Eyes</b>		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into suitable and labelled containers; if appropriate, moisten first to prevent dusting. Personal protection: P1 filter respirator for inert particles.	

EMERGENCY RESPONSE	SAFE STORAGE
	Separated from incompatible materials. See Chemical Dangers.

**IMPORTANT DATA****Physical State; Appearance**

WHITE SOLID IN VARIOUS FORMS

**Physical dangers**

Dust explosion possible if in powder or granular form, mixed with air.

**Chemical dangers**

The substance decomposes on heating producing toxic fumes and irritating fumes, causing fire and explosion hazard. Reacts violently with fluorine. Reacts with strong acids, strong oxidants.

**Occupational exposure limits**TLV not established.  
MAK not established.**Inhalation risk**

A nuisance-causing concentration of airborne particles can be reached quickly especially if powdered.

**PHYSICAL PROPERTIES**Melting point: (see Notes) 85-140/C  
Density: (see Notes) 0.91-0.96 g/cm<sup>3</sup>Flash point: (see Notes) 341/C  
Auto-ignition temperature: (see Notes) 330-410/C**ENVIRONMENTAL DATA****NOTES**

LDPE means Polyethylene with low density; HDPE means Polyethylene with high density. Physicochemical properties vary depending upon the molecular mass.  
Thermal degradation starts at 290/C.  
The PE products are available in large selection of various forms, due to additives used in the manufacture. The additives can influence the physical and toxicological properties of this substance.

**ADDITIONAL INFORMATION****LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible