

Material Safety Data Sheet LLDPE

Section 1: Chemical Product and Company Identification

Product Name : Linear Low Density Polyethylene (LLDPE)
Chemical Formula : $H(CH_2CH_2)_nH$
Company Identification : Tradeasia International Pte Ltd
Email Address : contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Linear Low Density Polyethylene	9002-88-4	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Health Effects on:

Eyes:

Contact of powder or fines with eye may cause mechanical irritation. Contact with hot or molten material may cause severe injury, including in extreme contact, possible blindness.

Skin:

Contact of powder or fines with skin may cause mild to more serious irritation that is increased by mechanical rubbing or if skin is dry. Contact with hot or molten material may cause severe thermal burns.

Ingestion:

Ingestion of this product is unlikely. However, ingestion of the product may produce mild gastrointestinal irritation and disturbances.

Inhalation:

Inhalation of fine particles may cause respiratory & eye irritation. Negligible hazards at ambient temperatures (-18°C to +50°C)

Environmental Hazards:

Polyethylene is an essentially biological inert solid and considered non-toxic.
It is stable (does not decompose) in landfills or in aquatic systems.

Section 4: First Aid Measures

Eye Contact:

Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.

Skin Contact:

If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissues and polymer. Do not attempt to peel the polymer from skin. Obtain immediately emergency medical attention if burn is deep or extensive.

Serious Skin Contact: Not available.

Inhalation:

If symptoms are experienced, move victim to fresh air. Obtain medical attention if breathing difficulty persists.

Serious Inhalation: Not available.

Ingestion:

Adverse health effects due to ingestion are not anticipated.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: 335°C

Auto-Ignition Temperature: 350°C

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances: Not available.

Fire Fighting Media and Instructions: Not available.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Spill and Leak procedure:

Sweep up spilled material for use or disposal. Good housekeeping must be maintained to avoid potential slipping problem.

Caution:

Keep walking surface free of spilled material to avoid slipping hazard.

Section 7: Handling and Storage

Precautions:

No specific requirements necessary, if handled at room temperature. Avoid spilling the product, as this might cause falls. Potential toxic/irritating fumes may be evolved from heated material. Provide appropriate ventilation for such processing conditions.

Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

Storage:

This product may react with strong oxidising agents & should not be stored near such materials. Store the bags in areas protected with automatic sprinklers. Storage temperature should be below 60 oC. Do not smoke. Take precautionary measures to prevent the formation of static electricity. Ground equipment electrically. Electric safety equipment. Open flames prohibited. Store the product in bags, car silos, container, or large cartons. Information about storage in one common storage facility Not required. Further information about storage conditions. Protect from heat and direct sunlight.

Store under dry conditions

Specific Applications: For safe stacking follow the storage recommendations specific for this product.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use in a well-ventilated area. If handling results in dust generation, special ventilation may be needed to minimize dust exposure. If heated material generates vapour or fumes, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure.

Personal Protection: Not available.

Respiratory system:

Product processing, heat sealing of film or operations involving the use of wires or blades heated above 300°C may produce dust, vapour or fumes. To minimize risk of overexposure to dust, vapour or fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated. If ventilation is inadequate, use certified respirator that will protect against dust/mist.

Skin and body:

Hot material: Wear heat-resistant protective gloves, clothing and face shield able to withstand the temperature of the molten product. Cold material: None required; however, use of gloves is good industrial practice.

Hand:

Hot material: Wear heat-resistant protective gloves able to withstand the temperature of the molten product. Cold material: None required; however, use of gloves is good industrial practice. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacture and with a full assessment of the working conditions.

Eyes:

Safety glasses with side shields. Use dust goggles if high dust concentration is generated.

Section 9: Physical and Chemical Properties

Physical state and appearance	: Granular solid
Odor	: Odorless
Taste	: Not available.
Molecular Weight	: Not available.
Color	: Clear to white.
pH (1% soln/water)	: Not available
Boiling Point	: Not available.
Melting Point	: 115 – 130 °C.
Critical Temperature	: Not available.
Specific Gravity: Density	: 0.910-0.950 g/cm ³
Vapor Pressure	: Not applicable.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.

Dispersion Properties : Not available.
Solubility : Insoluble in water.

Section 10: Stability and Reactivity Data

Stability:

This product is stable under normal use conditions for shock, vibration, pressure or Temperature.

Instability Temperature: Avoid Processing Material over 300°C.

Conditions of Instability: Avoid strong oxidizing agents

Incompatibility with various substances:

May react with strong oxidizing agents. Organic solvents, ether, gasoline, lubricating oils, chlorinated hydrocarbons and aromatic hydrocarbons may react with and degrade polyethylene. Powders or dusts may form explosive mixture with air. Risk of dust-air explosion is increased if flammable vapours are also present.

Corrosivity: Product is not corrosive.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Not likely to occur.

Section 11: Toxicological Information

Routes of Entry:

Ingestion.

Toxicity to Animals:

Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Not available.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Non-biodegradable.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Use material for its intended purpose or recycle if possible.

Section 14: Transport Information

DOT Classification: Not available.

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: Not available

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): Not available.

DSCL (EEC): Not available.

HMIS (U.S.A.):

Health Hazard: Not available

Fire Hazard: Not available

Reactivity: Not available

Personal Protection: Not available

National Fire Protection Association (U.S.A.):

Health: Not available

Flammability: Not available

Reactivity: Not available

Specific hazard:

Protective Equipment: Not available

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. Be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.