



Safety Data Sheet

POLYETHYLENE LOTRENE LDPE & LLDPE

Product: Lotrene LDPE & LLDPE

Version: 4

Page: 1/10

Revised: 26/04/2015

Supersedes: 29/03/2015

WARNING :

FOR STACKING

PALLETS, SEE

SECTION 7



1. Identification of the substance / mixture and of the company / undertaking

1.1. PRODUCT IDENTIFIER

Trade name	Polyethylene
Other names	LOTRENE
Chemical name	9002-88-4 (LDPE); 25087-34-7 (LLDPE)
CAS number	Low density Polyethylene and linear low density Polyethylene 9002-88-4 (LDPE); 25087-34-7 (LLDPE)

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE AND USES ADVISED AGAINST

Recommended uses For more detailed information, see technical data sheet.
Recommended to professional users

1.3. DETAILS OF THE SUPPLIER OF SAFETY DATA SHEET

Trade name of the firm see below this page.

COMPANY INFORMATION

Company Name

Qatar Petrochemicals Company (Qapco) Q.S.C
P. O. Box 756
Doha- Qatar
Email address: info@qapco.com.qa.

Qatofin Company Limited
P. O. Box 55013
Doha- Qatar
Email address: info@qatofin.com.qa

1.4. EMERGENCY TELEPHONE NUMBER*

Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
CCN724450
Outside USA and Canada: +1 703-741-5970 and
+1-703-527-3887 (collect calls accepted)

2. Hazards identification

2.1. Classification of the substance

EC-GHS (CLP)

Not classified according to the regulation EC 1272/2008 (EC-GHS) and ATP

67/548/EEC & 1999/45/EC

Not classified according to EEC directives 67/548/EEC (dangerous substances) and 1999/45/EC (dangerous preparations).



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Main hazards

None to our knowledge
Low risk for temperatures below 130 °C

Adverse human health effects

Inhalation

Fine dust may cause irritation of respiratory system and mucous membranes.

If heated to more than 130°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath.

Skin contact

In contact with hot material, may cause severe thermal burns

Eye contact

Fine dust may cause irritation to ocular mucous.

Ingestion

Polyolefins are biologically inert.

Adverse environmental effects

Because of its structure, the product should not be dangerous for aquatic life non-biodegradable

Adverse physicochemical effects

Combustible if exposed to flames.

Flowing product can create electrical charge, resulting sparks may ignite dust or cause an explosion in some concentration ranges.

2.2. Label elements

EC-GHS (CLP)

Not classified according to the regulation EC 1272/2008 (EC-GHS) and ATP

Pictogram(s) –

WARNING :
FOR STACKING
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2.3. Other hazards

no information available

3. Composition / information on ingredients

3.1. Substances (chemical name)

Polyethylene

CAS number

9002-88-4 (LDPE) / 25087-34-7 (LLDPE)

EINECS or ELINCS

Number the product is a polymer, following the European regulation, registration on the EINECS (European Inventory of Existing Commercial Chemical Substances) inventory is not required.

EC-GHS (CLP)

Non required

67/548/EEC & 1999/45/EC

Non required

Substances presenting a health hazard

None to our knowledge

Chemical family

Olefinic polymer

Additives

Antioxidants and stabilisers : 0,7 % maximum

4. First-aid measures

4.1. Description of first aid measures

Route of exposure

Inhalation

Exposure to spray, fumes and vapours produced by heated or burned product:

Bring patient into fresh air

Seek medical advice.



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Skin contact

Exposure to splashing of hot product:
Treat the affected part with cold water (by spraying or immersion).
No attempt should be made to detach molten product adhering to the skin or to remove clothing attached with molten material, the injured body part would risk being pulled out; usually the layer detaches itself after a few days.

Eye contact

In case of severe burns, seek hospital treatment
Exposure to splashing of hot product:
Treat the eyes with cold water.
Seek specialist advice at hospital or medical centre
Fine dust may cause irritation to ocular mucous.
In case of irritation caused by fine dust: wash with copious volumes of water, until the irritation disappears.

4.2. Most important symptoms and effects, both acute and delayed

Refer to § 11 for more details on effects.

4.3. Indication of any immediate medical attention and special treatment needed

No information available

5. Fire - fighting measures

Technical measures

Stop the fire spreading.
Call the fire brigade immediately.
Evacuate non-essential personnel
Protective clothing, goggles and self-contained breathing equipment should be made available for firemen.

5.1. Extinguishing media

Suitable

For minor fires : carbon dioxide (CO₂) or powder, water
For more extensive fires : foam, water spray (mist) to cool the surfaces exposed to the fire.

Not to be used

Do not use water jets (stick jets) for extinguishing fire since they could help to spread the flames

5.2. Special hazards arising from the substance

Complete combustion, with an excess of oxygen forms: carbon dioxide (CO₂) and water vapour.
Partial combustion, forms also: carbon monoxide (CO), soot and cracked products: aldehydes, ketones, Acetone, Acetaldehyde, Formaldehyde, Acrolein, hydrocarbons and volatile fatty acids

5.3. Advice for firefighters

Wear suitable breathing equipment, in case of risk of exposure to vapour or fumes.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

Personnel wear a suitable anti-dust respirator
Where exposure is likely, protective clothing must be worn including gloves, goggles/spectacles

For emergency responders

Wear suitable breathing equipment, in case of risk of exposure to vapour or fumes.

6.2. Environmental precautions

Do not dispose off this product into the environment



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6.3. Methods and material for containment and cleaning up

On soil	Granules spilled on the floor can cause a risk of slipping on smooth surfaces. Recover the spilled product by sweeping or suction; put it in containers to facilitate its disposal. Dispose safely in accordance with local or national regulations.
On water	Prevent the spilled material from spreading. If the material has been discharged into a stream or a sewerage system, inform the authorities of the possible presence of floating materials. Clean up the water surface by creaming off debris from the top. Refer to a specialist for waste disposal in a safe manner in accordance with local or national regulations.

6.4. Refer to points 8 and 13

7. Handling and storage

Important

Refer to any national measures that may be relevant.

7.1. Precautions for safe handling

Technical measures

All pneumatic transport equipment must be electrically earthed.
Avoid dust accumulation by use of filters in the pneumatic transport equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store at ambient temperature and at atmospheric pressure in original packaging (plastic or cardboard boxes) or in silo made of appropriate material (aluminium, stainless steel, ...).
Do not store near highly flammable materials.
Store away from heating source. avoid static electricity build up with connection to earth.
Store in dry, well-ventilated area.
Prolonged storage preferably out of the sun or other sources of radiation

Storage of pallets

Two pallets may be stacked on flooring in sound condition.
However, when the pictorial warning as shown on the top of the safety data sheet is affixed to the pallet, the pallet must never be placed either on top of or below another pallet.
N.B. :here the term pallet includes both the pallet and its load.
When pallets are stored in racks, it should be checked whether the pallet is fit for stacking in the concerned racks

7.3. SPECIFIC USE(S)

Refer to point 8

Recommended to professional users



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8. Exposure controls / personal protection

8.1. CONTROL PARAMETERS

Refer to any national measures that may be relevant.

OCCUPATIONAL EXPOSURE LIMIT

Inhalable dust particles:

US (ACGIH-2012): TLV-8h TWA: 10 mg/m³

UK: HSE EH40/2005:

Long-term exposure limit (8-hour TWA reference period) : 10 mg/m³
(Total Inhalable Dust)

Respirable dust particles:

US (ACGIH-2012): TLV- 8h TWA: 3 mg/m³

UK: HSE EH40/2005:

Long-term exposure limit (8-hour TWA reference period) : 4 mg/m³
(Respirable Dust)

8.2. EXPOSURE CONTROLS

Appropriate engineering controls

The substance is not classified for human health or for the environment, and is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

Occupational exposure controls

Personal protection

Respiratory protection

In case of risk of overexposure to dust, vapour or fumes (during product processing), it is recommended that a local exhaust system is placed above the conversion equipment (a fume hood) and the working area must be properly ventilated.

Wear a suitable anti-dust respirator

Recommended filter type : P1

Skin and body protection

Where exposure is likely, protective clothing must be worn including gloves

Eye protection

Goggles/spectacles

Other personal protection

Safety non-slip shoes in areas where spills or leaks can occur.

Industrial health measures

General use

Local exhaust ventilation may be needed when working in a closed area

Use working clothing.

Do not store near food products.

When using, do not eat, drink or smoke.

Environmental exposure controls

Handle in accordance with good industrial hygiene and safety procedures

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Pellets from a diameter of 2 to 5 mm

Physical state at 20°C

Solid

Colour

Translucent , white opaque

Odour

Odourless



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Change in physical state at 1013 hPa

Melting range (°C)	90 to 160
Flash point (ASTM D 1929)(°C)	± 340
Auto-ignition temperature (°C)	> 350
Explosion limits (kg/m ³) :	
Lower	0,015 (for polymer dust < 63 µm)
Min. ignition energy at 20°C (mJ)	63
Vapour pressure at 20°C (hPa)	None
Density, mass at 20°C (kg/m ³)	915 - 935 (ISO 1183)
Solubility in water at 20°C (mg/l)	Insoluble
pH value (concentrated product)	Not applicable
Viscosity (mm ² /s)	Not applicable

9.2. OTHER INFORMATION

No information available

10. Stability and reactivity

10.1. REACTIVITY

The product is combustible if heated above the flash point.

10.2. CHEMICAL STABILITY

Stable under normal operating conditions of storage, handling and use

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Dust may form an explosive mixture with air, ignited by sparks or sources of ignition.

10.4. CONDITIONS TO AVOID

Avoid proximity or contact with flames or sparks
It is recommended not to heat at a temperature higher than 320 °C

10.5. INCOMPATIBLE MATERIALS

Avoid contact with strong acids
halogens

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Advice to prevent explosion avoid dust accumulation by use of filters in the pneumatic transport equipment.
Thoroughly ventilate the working place.
All conductive materials must be electrically earthed.
In case of pneumatic alimentation, feed the extruders by aspiration, use preferably nitrogen as carrier gas

11. Toxicological information

11.1. Information on toxicological effects

ACUTE TOXICITY

Polyolefins are biologically inert.

Ingestion

Because of its composition, the product should be considered as practically not harmful

LOCAL EFFECT

Inhalation

Dust may cause irritation of respiratory system.



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	If heated to more than 130°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath.
Skin contact	Because of its composition, the product should be considered practically as not irritating In contact with hot material, may cause severe thermal burns Thermal decomposition products are produced at elevated temperatures and these may be irritating
Eye contact	Because of its composition, the product should be considered practically as not irritating Fine dust may cause irritation to ocular mucous. Splashing of molten droplets causes ocular tissue burns. Thermal decomposition products are produced at elevated temperatures and these may be irritating Polyolefins are biologically inert.

SPECIFIC EFFECTS

12. Ecological information

Information on ecological effects

Avoid losses to the environment whenever possible.

12.1. TOXICITY

Because of its structure, the product should not be dangerous for aquatic life

12.2. PERSISTENCE AND DEGRADABILITY

Biodegradation
BOD 5 (gO₂/g)

Persistent in the environment
This substance is slowly biodegradable
Below the detection limit

12.3. BIOACCUMULATIVE POTENTIAL

Potential bioaccumulation of the product in environment is very low

12.4. MOBILITY

Water / Air

Volatile organic compound (VOC) content of this product is < at 0.3 % weight
Evaporation into air is practically nil

Soil and sediments

Because of its physico-chemical properties, the product has a low soil mobility
Water the product, in cases of accidental discharge, floats on the surface, is insoluble and its evaporation into air is practically nil

12.5. Results of PBT and vPvB assessment

Not required

12.6. OTHER ADVERSE EFFECTS

No information available

13. Disposal considerations

13.1. Waste treatment methods

According to local regulations.
Authorized disposal
As refuse for reprocessing
do not dispose of by means of sinks, drains or into the immediate environment



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May be used as fuel in suitably designed installations.
Incinerate with household refuse in a municipal solid waste incinerator plan.

Industrial waste number EC

07 02 13, 16 01 19, 17 02 03 & 20 01 39: plastics

14. Transport information

Road (ADR) / Rail (RID)

UN Number

Inland waterways (ADN)

Marine (IMO)

Air transport (ICAO / IATA)

Not restricted for transport.

Not applicable

Not restricted for transport.

Not restricted for transport.

Not restricted for transport.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Germany

Wassergefährdungsklasse

NWG: non-hazardous to waters

Registration

These registration entries are for polymers only. For additives, please refer to QAPCO who will provide the necessary certification
The product is a polymer, following the European regulation, registration on the EINECS (European Inventory of Existing Commercial Chemical Substances) inventory is not required.
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List) inventory.
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory.
Listed on the AICS (the Australian Inventory of Chemical Substances).
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on the Filipino PICCS (Philippine Inventory of Chemicals and Chemical Substances) inventory.
Listed on the swiss inventory : SWISS
Listed on the People's Republic of China register: CRC-SEPA (Chemical Registration Center for Chinese State Environmental Protection Administration)

15.2. Chemical safety assessment

The substance is not classified for human health or for the environment, and is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.



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16. Other information

Training advice

The use of this product requires specific training.
The user must receive all product information in order to handle the product safely
(personal protection equipment and best practice standards)

Further information

No information available

Safety data sheet conforms to the Regulation (EU) N° 1907/2006

This information applies to the PRODUCT AS SUCH and conforming to specifications of QAPCO.

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear.

The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes.

The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

The (*) indicate the changes made with respect to the previous version.