

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) no. 1907/2006

QAPCO POLYETHYLENE LDPE

Page 1 of 13

Product: LDPE

Version: 0

Revised : 30/03/2010

Supersedes: None

WARNING :
FOR STACKING
PALLETS, SEE
SECTION 7



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

Trade name	LOTRENE
Name of the product	Polyethylene LDPE
Chemical name	low density Polyethylene
Material Use	film, tube, blowing, injection, cable works for more detailed information, see technical data sheet.

RESPONSIBLE FOR PLACING ON THE MARKET

Trade name of the firm see below this page.

COMPANY INFORMATION

Company Name Qatar Petrochemical Company. (QAPCO)
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EMERGENCY NUMBER

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2. Hazards identification

Main hazards	none to our knowledge Low risk for temperatures below 130 °C
Symptoms related to use Inhalation	fine dust may cause irritation of respiratory system and mucous. If heated to more than 130°C, the product may form vapors 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	polyolefin 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.

3. Composition / information on ingredients

Chemical name	Polyethylene
Chemical formula	(C ₂ H ₄) _x

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CAS number	9002-88-4
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.
Substances presenting a health hazard	none to our knowledge
Chemical family	Olefinic polymer
Additives	Antioxidants and stabilisers: 0, 7 % maximum

4. First-aid measures

Route of exposure

Inhalation	exposure to spray, fumes and vapors produced by heated or burned product: Bring patient into fresh air seek medical advice.
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. In case of severe burns, seek hospital treatment
Eye contact	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.

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5. Fire - fighting measures

Fire-class regulation	A: Solid material fires, principally of organic nature, that burn with incandescence
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.
Extinguishing media	
Suitable	for minor fires: carbon dioxide (CO ₂) 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
Special peril	complete combustion, with an excess of oxygen forms: carbon dioxide (CO ₂) 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
Protective equipment for firefighters	wear suitable breathing equipment, in case of risk of exposure to vapour or fumes.

6. Accidental release measures

After spillage / leakage	
On soil	granules spilled on the floor can cause a risk of slipping

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	<p>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.</p>
On water	<p>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.</p>

7. Handling and storage

HANDLING

Technical measures

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

STOCKAGE

Storage conditions

store at ambient temperature and at atmospheric pressure in original packaging (plastic or cardboard boxes) or in silo made of appropriate material (aluminum, 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.

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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.

SPECIFIC USE(S)

refer to point 8

no information available

8. Exposure controls / personal protection

Exposure controls

OCCUPATIONAL EXPOSURE LIMIT

respirable dust particles:

US (ACGIH-2007): TLV- 8h TWA: 3 mg/m³

UK: HSE EH40/2005:

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

(Respirable Dust)

IRL (2002): OEL (8h): 4 mg/m³ (respirable)

ZA (2006): OEL (8h): 5 mg/m³ (respirable particulate:
PNOC)

Inhalable dust particles:

US (ACGIH-2007): 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)

IRL (2002): OEL (8h): 10 mg/m³ (total inhalable)

ZA (2006): OEL (8h): 10 mg/m³ (inhalable particulate:
PNOC)

EXPOSURE CONTROLS

Occupational exposure controls

Personal protection

Respiratory protection

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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.
Environmental exposure controls	unregulated

9. Physical and chemical properties

GENERAL INFORMATION

Appearance	pellets from a diameter of 2 to 5 mm
Physical state at 20°C	solid
Colour	translucent, white opaque
Odour	odourless

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

Change in physical state at 1013 hPa	
Melting range (°C)	90 to 140
Flash point (ASTM D 1929)(°C)	± 340
Auto-ignition temperature (°C)	> 350
Explosion limits (kg/m ³):	

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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
OTHER INFORMATION	no information available

10. Stability and reactivity

Stability	stable under normal operating conditions of storage, handling and use.
Hazardous reactions	dust may form an explosive mixture with air, ignited by sparks or sources of ignition.
CONDITIONS TO AVOID	avoid contact with strong oxidizing materials and fluorine avoid proximity or contact with flames or sparks it is recommended not to heat at a temperature higher than 320 °C
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

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11. Toxicological information

ACUTE TOXICITY

Ingestion

polyolefins are biologically inert.
Because of its composition, the product should be considered as practically not harmful.

LOCAL EFFECT

Inhalation

dust may cause irritation of respiratory system.
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.

SPECIFIC EFFECTS

polyolefins are biologically inert.
No particular preoccupation for man
(Genotoxicity, carcinogenicity, reproductive toxicity)

12. Ecological information

Information on ecological effects

avoid losses to the environment whenever possible.

MOBILITY

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Water / air	volatile organic compound (VOC) content of this product is < at 0.5 % weight there is a slow loss by evaporation
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
PERSISTENCE AND DEGRADABILITY	
Biodegradation	persistent in the environment
BOD 5 (gO ₂ /g)	this substance is slowly biodegradable below the detection limit
BIOACCUMULATIVE POTENTIAL	
	potential bioaccumulation of the product in environment is very low
ECOTOXICITY	
	because of its structure, the product should not be dangerous for aquatic life

13. Disposal considerations

Waste disposal	according to local regulations. authorized disposal as refuse for reprocessing do not dispose off by means of sinks, drains or into the immediate environment 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
API (Association of Plastic Industry) Code	4: LDPE: low density Polyethylene

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14. Transport information

Road (ADR) / Rail (RID)	not restricted for transport.
UN Number	not applicable
Marine (IMO)	not restricted for transport.
Air transport (ICAO / IATA)	not restricted for transport.

15. Regulatory information

Labeling and Classification EC

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

Germany

Wassergefährdungsklasse

NWG: non-hazardous to waters

Registration

These registration entries are for polymers only. For additives, please refer to QATAR PETROCHEMICAL COMPANY 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.

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listed on the Filipino PICCS (Philippine Inventory of Chemicals and Chemical Substances) inventory.
listed on the swiss (liste des toxiques IGS/ IGS Giftliste 2003-2004) inventory
listed on the People's Republic of China register: CRC-SEPA
(Chemical Registration Center for Chinese State Environmental Protection Administration)

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)
Recommended uses	Restricted to professional users
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 QATAR PETROCHEMICAL COMPANY.

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

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of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

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