

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended



Polyethylene (LLDPE)

OP004

Version / Revision

1

Revision Date

11-Oct-2019

Supersedes Version

-

Issuing date

11-Oct-2019

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product identifier

Identification of the substance/preparation

Polyethylene (LLDPE)

Synonyms

1-Butene, Polymer with Ethene:
Luban DFDA-7047 / Luban DFDC-7080 / Luban DFDA-7059 / Luban DFDC-7050 /
Luban / Luban DNDA-8320 / Luban DNDA-8350 / Luban LL-84456.21
1-Hexene, Polymer with Ethene:
Luban HPR1018HA / Luban DNDC-7150 / Luban DNDC-7152

Product form

Mixture

CAS-No

25087-34-7 (1-Butene, Polymer with Ethene)
25213-02-9 (1-Hexene, Polymer with Ethene)

EC No.

607-541-7 (1-Butene, Polymer with Ethene)
607-647-3 (1-Hexene, Polymer with Ethene)

Registration number (REACH)

-

1.2. Relevant identified uses of the substance or mixture and uses advised against

Industrial / Professional use spec

Industrial
For professional use only

Identified uses

Industrial processing & uses

Uses advised against

None

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification

Orpic Polymer Marketing, LLC
PO Box 3568
PC 112 Ruwi, Muscat, Sultanate of Oman
T +968 22144274 / +968 91999088
polymers@orpic.om - www.orpic.om

1.4. Emergency telephone number

Emergency telephone number

+968 22144444 (Muscat)
+968 22105555 (Suhar)

National emergency telephone number

National Poisons Information Service
(Birmingham Centre) City Hospital
Dudley Road

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B18 7QH Birmingham
United Kingdom
T +44 3448920111
available 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Based on present data no classification and labelling is required according to Directive 1272/2008/EC and its amendments (CLP Regulation)

2.2. Label elements

Not required.

Unknown hazards to the aquatic environment (CLP) Polymers are not expected to be hazardous to the environment

2.3. Other hazards

Dust can form an explosive mixture in air
Eye mechanical irritation is possible

PBT and vPvB assessment Not required

SECTION 3: Composition / information on ingredients

3.1. Substances not applicable

3.2. Mixtures

Component	CAS-No	REACH-No	1272/2008/EC	Concentration (%)
1-Butene, Polymer with Ethene	25087-34-7	-	-	> 99
1-Hexene, Polymer with Ethene	25213-02-9	-	-	> 99
Non-hazardous additives	-	-	-	< 1

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation

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If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow the victim to rest.

Skin

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. After contact with the molten product, cool rapidly with cold water. Removal of solidified molten material from skin requires medical assistance.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. If you feel unwell, seek medical advice.

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

Symptoms/effects after inhalation

Inhalation of vapors may cause respiratory irritation.

Symptoms/effects after skin contact

Risk of thermal burns on contact with molten product.

Symptoms/effects after eye contact

Causes serious eye irritation.

Symptoms/effects after ingestion

Risk of thermal burns on contact with molten product. May be a choking hazard.

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

Treatment

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard

Burning produces irritating, toxic and noxious fumes. Combustible dust.

Explosion hazard

Dust may form explosive mixture in air. Dust cloud in combination with static electricity can very be explosive.

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5.3. Advice for firefighters

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Keep people away from and upwind of fire.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Avoid contact with skin, eyes and clothing.

6.1.1. For non-emergency personnel

Protective equipment

Refer to section 8.2.

Emergency procedures

Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

Refer to section 8.2.

Emergency procedures

Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for containment

Avoid generating dust. Contain and collect as any solid.

Methods for cleaning up

On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

For personal protective equipment see section 8.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Ground/bond container and receiving equipment.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions

Keep only in the original container. Keep container closed when not in use.

Incompatible products

Moisture. Strong oxidizers.

Incompatible materials

Sources of ignition. Direct sunlight.

Storage area

Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Identified uses

Industrial processing & uses.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits European Union

No exposure limits established

Exposure limits UK

EH40 WELs

Component	TWA (mg/m ³)	TWA (ppm)	STEL (mg/m ³)	STEL (ppm)
Dust, general threshold limit value (inhalable fraction) CAS: -	10			
Dust, general threshold limit value (respirable fraction)	4			

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CAS: -				
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Note

For details and further information please refer to the original regulation.

DNEL & PNEC

Not required.

8.2. Exposure controls

Special adaptations (REACH)

This substance is exempted from REACH (1907/2006).

Appropriate Engineering controls

Avoid dispersal of dust in the air (clearing dust surfaces with compressed air). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation. Use spark-/explosion proof appliances and lighting system.

Personal protective equipment

Avoid all unnecessary exposure.

Hand protection

Wear dust impervious gloves. Nitrile rubber. Neoprene/natural rubber. Heat protective impervious gloves when handling molten product.

Eye protection

Chemical goggles or safety glasses. When handling in molten state: Face shield.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material.

Thermal hazard protection

Flame retardant clothing should be used when handling in molten state.

Other information

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	pellets
Colour	white, clear
Odour	slight

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Odour threshold	No data available
pH	No data available
Melting point/range	115 - 138 °C
Freezing point	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	not flammable
Lower explosion limit	No data available
Upper explosion limit	No data available

Vapour pressure	No data available
Vapour density	No data available

Relative density			
Values	@ °C	@ °F	Method
918 - 939	-	-	-
Solubility	insoluble in water		
log Pow	No data available		
Autoignition temperature	349 °C		
Decomposition temperature	> 300 °C		
Viscosity	No data available		
Explosive properties	No data available		
Oxidizing properties	No data available		

9.2. Other information

Molecular formula	$-(C_4H_8.C_2H_4)_x-$ $-(C_6H_{12}.C_2H_4)_x-$
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SECTION 10: Stability and Reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Avoid creating or spreading dust.

10.5. Incompatible materials

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Strong oxidizers. Moisture.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Burning produces irritating, toxic and noxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure

Eye contact, Ingestion, Inhalation, Skin contact

Acute toxicity				
1-Butene, Polymer with Ethene (25087-34-7)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	> 5000 mg/kg	rat	
Dermal	LD50	> 2000 mg/kg	rat	

1-Hexene, Polymer with Ethene (25213-02-9)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	> 5000 mg/kg	rat	
Dermal	LD50	> 2000 mg/kg	rat	

1-Butene, Polymer with Ethene, CAS: 25087-34-7

Assessment

Based on available data, the classification criteria are not met for:

Acute oral toxicity

Acute dermal toxicity

For acute inhalation toxicity, no data are available

1-Hexene, Polymer with Ethene, CAS: 25213-02-9

Assessment

Based on available data, the classification criteria are not met for:

Acute oral toxicity

Acute dermal toxicity

For acute inhalation toxicity, no data are available

1-Butene, Polymer with Ethene, CAS: 25087-34-7

Assessment

For skin irritation, no data are available

For eye irritation, no data are available

For respiratory irritation, no data are available

1-Hexene, Polymer with Ethene, CAS: 25213-02-9

Assessment

For skin irritation, no data are available

For eye irritation, no data are available

For respiratory irritation, no data are available

1-Butene, Polymer with Ethene, CAS: 25087-34-7

Assessment

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For skin sensitization, no data are available
For respiratory sensitization, no data are available

1-Hexene, Polymer with Ethene, CAS: 25213-02-9

Assessment

For skin sensitization, no data are available
For respiratory sensitization, no data are available

1-Butene, Polymer with Ethene, CAS: 25087-34-7

Assessment

For subacute, subchronic and prolonged toxicity, no data are available

1-Hexene, Polymer with Ethene, CAS: 25213-02-9

Assessment

For subacute, subchronic and prolonged toxicity, no data are available

1-Butene, Polymer with Ethene, CAS: 25087-34-7

Evaluation

For carcinogenicity, no data are available
For mutagenicity, no data are available
For reproductive toxicity, no data are available

1-Hexene, Polymer with Ethene, CAS: 25213-02-9

Evaluation

For carcinogenicity, no data are available
For mutagenicity, no data are available
For reproductive toxicity, no data are available

1-Butene, Polymer with Ethene, CAS: 25087-34-7

Aspiration toxicity

no data available

1-Hexene, Polymer with Ethene, CAS: 25213-02-9

Aspiration toxicity

no data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

Unknown hazards to the aquatic environment (CLP)

Polymers are not expected to be hazardous to the environment.

12.2. Persistence and degradability

1-Butene, Polymer with Ethene, CAS: 25087-34-7

Biodegradation

Not readily biodegradable.

1-Hexene, Polymer with Ethene, CAS: 25213-02-9

Biodegradation

Not readily biodegradable.

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12.3. Bioaccumulative potential

Not expected to bioaccumulate

12.4. Mobility in soil

Low mobility (soil)

12.5. Results of PBT and vPvB assessment

Not required

12.6. Other adverse effects

No data available

Note

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

Avoid release to the environment.

European List of Waste (LoW) code

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

SECTION 14: Transport information

Section 14.1 - 14.6

ADR/RID

Not restricted

ADN

Not restricted

ICAO-TI / IATA-DGR

Not restricted

IMDG

Not restricted

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

National regulatory information Great Britain

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Releases to air (Pollution Inventory Substances)

Component	Annual reporting level threshold
Dust, general threshold limit value (inhalable fraction) CAS: -	10 tonnes, listed as particulates - total

Releases to water (Pollution Inventory Substances)

not subject

Releases to sewer (Pollution Inventory Substances)

not subject

For details and further information please refer to the original regulation

SECTION 15: Regulatory information

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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Regulation 1272/2008, Annex VI

not listed

DI 2012/18/EU (Seveso III)

Category

not subject

DI 1999/13/EC (VOC Guideline)

Component	Status
1-Butene, Polymer with Ethene CAS: 25087-34-7	not subject
1-Hexene, Polymer with Ethene CAS: 25213-02-9	not subject

International Inventories

1-Butene, Polymer with Ethene, CAS: 25087-34-7

AICS (AU)

DSL (CA)

IECSC (CN)

ENCS (6)-18 (JP)

ISHL (6)-18 (JP)

KECI KE-04086 (KR)

PICCS (PH)

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TSCA (US)
NZIoC-NZ May be used as single component chemical
TCSI (TW)

1-Hexene, Polymer with Ethene, CAS: 25213-02-9

AICS (AU)
DSL (CA)
IECSC (CN)
ENCS (6)-1594 (JP)
ISHL 9-335 (JP)
KECI KE-13670 (KR)
PICCS (PH)
TSCA (US)
NZIoC-NZ May be used as single component chemical
TCSI (TW)

15.2. Chemical safety assessment

The Chemical Safety Report (CSR) is not required.

SECTION 16: Other information

Abbreviations

A table of terms and abbreviations can be found under the following link:
http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf

Training advice

For effective first-aid, special training / education is needed.

Sources of key data used to compile the datasheet

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <https://echa.europa.eu/en/information-on-chemicals/cl-inventory-database>. European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

Further information for the safety data sheet

Changes against the previous version are marked by ***. Observe national and local legal requirements. For more information, other safety data sheets or technical data sheets please consult the Orpic homepage (www.orpic.com). The annex is not required because this material is exempted from REACH

Safety Data Sheet prepared by:

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Disclaimer

This Information is based on our current knowledge and is intended to describe the product for the purposes of health,

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safety and environmental requirements only. It should not therefore be construed as guaranteeing and specific property of the product.

End of Safety Data Sheet