SAFETY DATA SHEET

Luban HPR1018HA
30600

Version / Revision	1	**Revision Date**	05-Apr-2022
Supersedes Version	-	**Issuing date**	05-Apr-2022

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

1.1. Product identifier

Identification of the substance/preparation **Luban HPR1018HA**

Polymer family Polyethylene (LLDPE)
CAS-No 25213-02-9
EC No. 607-647-3

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

Use of the Substance / Preparation Industrial processing & uses.
Uses advised against No additional information available

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification
OQ Plastics L.L.C.
Sohar Industrial Plant
P.O. Box 282
Sohar Oman

Product Information
Product Stewardship
FAX: +49 (0)208 693 2053
email: sc.psq@oq.com

1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK) available 24/7
Local emergency telephone number
+61 2 8014 4558 (Australia)
18000 74234 (Australia toll-free number)
+64 9 929 1483 (New Zealand)
0800 446 881 (New Zealand toll-free number)
+65 3158 1195 (Sri Lanka)
007 803 011 0293 (Indonesia toll-free number)
+60 3 6207 4347 (Malaysia)
001 800 120 666 751 (Thailand toll-free number)
+65 3158 1200 (Bangladesh)
+63 2 8231 2149 (Philippines)
+84 28 4458 2388 (Vietnam)
+65 3165 2217 (Singapore)
available 24/7

SECTION 2: Hazards identification

Europe

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.

2.3. Other hazards

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

PBT and vPvB assessment Not required

USA

2.1. Classification of the substance or mixture

This mixture is not hazardous in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

OSHA Specified Hazards Not applicable.

2.2. Label elements

Not required according to §1910.1200 (GHS-US labeling).

2.3. Other hazards

Dust can form an explosive mixture in air
Eye mechanical irritation is possible
Polymers are not expected to be hazardous to the environment

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Component	CAS-No	REACh-No	1272/2008/EC	Concentration (%)
1-Hexene, Polymer with Ethene	25213-02-9	01-2119462827-27 (Ethen)	-	> 99
Non-hazardous additives	-	-	-	< 1

Remarks
This SDS covers prime and near-prime materials of the grade identified in section 1.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, seek medical attention.

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.

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.

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

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

Main symptoms
Inhalation of vapors may cause respiratory irritation, Risk of thermal burns on contact with molten product, Causes serious eye irritation, May be a choking hazard.

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

General advice
Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

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

Burning produces irritating, toxic and noxious fumes
Combustible dust
Dust may form explosive mixture in air. Dust cloud in combination with static electricity can very be explosive

5.3. Advice for firefighters

Special protective equipment for firefighters
Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for firefighting
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. Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Do not breathe vapor. Do not breathe dust. Use personal protective equipment as required. Ground/bond container and receiving equipment. Evacuate unnecessary personnel.
For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

For personal protective equipment see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on 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.

Hygiene measures
Do not eat, drink or smoke during use.

Advice on the protection of the environment
See Section 8: Environmental exposure controls.

Incompatible products
Moisture
Strong oxidizers
Sources of ignition
Direct sunlight
Heat, flames and sparks

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion
Risk of dust explosion in fine crystalline powder form. Dust can form an explosive mixture in air. Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause

ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material.

Technical measures/Storage conditions
Proper grounding procedures to avoid static electricity should be followed. Keep only in the original container. Keep container closed when not in use. Store in dry, cool, well-ventilated area. Store in a dark area.

Temperature class
T2

7.3. Specific end use(s)

Industrial processing & uses

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits European Union

No exposure limits established

Exposure limits Germany

TRGS 900

Component	AGW (mg/m³)	AGW (ppm)	STEL factor Peak factor	Peak-limit category
1-Hexene, Polymer with Ethene CAS: 25213-02-9	1.25 10		Respirable fraction. 2 Inhalable fraction.	II Inhalable fraction.
Dust, general threshold limit value (inhalable fraction) CAS: -	10		2	II
Dust, general threshold limit value (respirable fraction) CAS: -	1,25		-	-

Component	Skin resorptive	Reproductive hazard	Note
1-Hexene, Polymer with Ethene CAS: 25213-02-9		Y	

MAK-values from the DFG

Component	MAK (ppm)	MAK (mg/m³)	listed w/o limits	Ceiling limit value
1-Hexene, Polymer with Ethene CAS: 25213-02-9		4 Inhalable dust.	Ja / Yes	()
Dust, general threshold limit value (inhalable fraction) CAS: -		4		
Dust, general threshold limit value (respirable fraction) CAS: -		0,3		II (8)

Component	H;S	carcinogenic category	pregnancy group	mutagenicity category
Dust, general threshold limit value (respirable fraction) CAS: -		4	C	

TRGS 905

Component	K	M	R(F)
1-Hexene, Polymer with Ethene CAS: 25213-02-9	2		

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

Exposure limits United States of America

US ACGIH

Component	TWA (mg/m³)	TWA (ppm)	STEL (mg/m³)	STEL (ppm)
Dust, general threshold limit value (inhalable fraction) CAS: -	10			
Dust, general threshold limit value (respirable fraction) CAS: -	3			

US OSHA Z-1

Component	Ceiling (mg/m³)	Ceiling (ppm)	PEL (mg/m³)	PEL (ppm)	Skin Designation
Dust, general threshold limit value (inhalable fraction) CAS: -			15		
Dust, general threshold limit value (respirable fraction) CAS: -			5		

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

8.2. Exposure controls

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

General industrial hygiene practice
Do not eat, drink or smoke during use.

Hygiene measures
Do not eat, drink or smoke during use.

Eye protection

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

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

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

Environmental exposure controls
If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	pellets
Colour	white, clear
Odour	slight
Odour threshold	No data available
pH	No data available
Melting point/range	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
Oxidizing properties	No data available
Explosive properties	No data available

9.2. Other information

Molecular formula $-(C_6H_{12}.C_2H_4)_x-$

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

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

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

1-Hexene, Polymer with Ethene, CAS: 25213-02-9
CMR Classification
For carcinogecity, 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
Aspiration toxicity
no data available

SECTION 12: Ecological information

12.1. Toxicity
No data available

12.2. Persistence and degradability

1-Hexene, Polymer with Ethene, CAS: 25213-02-9
Biodegradation
Not readily biodegradable.

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

Product Information
Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
Waste 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

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

ADR/RID Not restricted

SECTION 15: Regulatory information

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

DI 2012/18/EU (Seveso III)
Category not subject

DI 1999/13/EC (VOC Guideline)

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

International Inventories

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 with note
TCSI (TW)

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
Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

Further information for the safety data sheet
Changes against the previous version are marked by ***. For more information, other safety data sheets or technical data sheets please consult the OQ homepage (www.oq.com).
The annex is not required because this material is exempted from REACh

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End of Safety Data Sheet