



Safety Data Sheet

Linear Low Density Polyethylene HM2420

Version 1.03

Revision Date 29.05.2025

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

Product identifier

Trade name

Linear Low Density Polyethylene HM2420

Synonyms

Polyethylene copolymer with 1-hexene, Ethene hexene copolymer, Poly (Ethylene-co-1-hexene), Ethylene hexene copolymer, LLDPE

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

Use

Applications in the food industry.

Manufacturer or supplier's details

Company

Sasol Chemicals, a division of Sasol South Africa Ltd

Address

Sasol Place, 50 Katherine Street
Sandton
2090
South Africa

Telephone

+27103445000

E-mail address

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Emergency telephone number

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+44(0)1235 239 671 (Middle East, Arabic African countries)
+65 3158 1074 (Asia Pacific)
+86 400 120 6011 (China)
+27 (0)17 610 4444 (South Africa)
0800 112 890 RSA-Local only
+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification

Not a hazardous substance or mixture.

Label elements

REGULATION (EC) No 1272/2008

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Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

Not hazardous ingredient(s)

1-Hexene, polymer with ethene

Contents: ≥ 99.00 %W/W

CAS-No. 25213-02-9

Index-No.

EC-No.



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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Product does not release fumes at ambient temperatures. If exposed to fumes from heated polymer move to fresh air environment.
Skin contact	At room temperature the product is not considered harmful when in contact with skin. In case of skin contact with molten polymer immediately submerge the affected area in cold water to cool down polymer.
Eye contact	At room temperature the product is not considered hazardous in contact with eyes. In case of eye contact with molten polymer, cool under running water for 3-5 minutes. Do not attempt to remove molten polymer. Get medical attention immediately.
Ingestion	If swallowed, call a poison control centre or doctor immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Dry chemical. Carbon dioxide (CO ₂). Water spray.
Special hazards arising from the substance or mixture	Substance evolves toxic gases when burned.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Methods for cleaning up	Shovel into suitable container for disposal. The material taken up must be disposed of in accordance with regulations.
Reference to other sections	Refer to section 8 and 13

SECTION 7. Handling and storage

Safe handling advice	No special handling advice required under normal conditions. Molten polymer: Wear heat-resistant protective equipment.
Advice on protection against	Keep away from flames, sparks or other ignition sources. Avoid

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fire and explosion buildup of dusts.Protect against static.

Requirements for storage areas and containers Keep away from direct sunlight.Keep away from heat.

Advice on common storage Keep in a cool, well-ventilated place.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
DUSTS, RESPIRABLE	TWA	5 mg/m ³	1995	South Africa RELs
DUST	TWA	10 mg/m ³	1995	South Africa RELs
DUSTS, TOTAL DUST				

Exposure controls

Engineering measures

If user operations generate dust, fumes or mists, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Use only in an area equipped with explosion proof exhaust ventilation.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Ensure adequate ventilation.

Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally required. In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

Hand protection No hand protection required under normal conditions. Molten polymer: Wear heat-resistant gloves.

Eye protection No eye protection is required under normal conditions. Molten polymer: Wear safety glasses with side shields.

Skin and body protection No special body protection is required under normal conditions. Molten polymer: Wear heat-resistant protective clothing.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form Solid
State of matter Solid; at 20 °C; 1,013 hPa
Colour White
Odour Odourless
Odour Threshold No data available

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pH	Not applicable
Melting point/range	110 - 125 °C
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	349 °C
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	Not applicable
Relative vapour density	No data available
Density	0.900 - 0.940 g/cm ³ ; 20 °C
Bulk density	Not applicable
Water solubility	Insoluble
Partition coefficient: n-octanol/water	Not applicable
Viscosity, kinematic	No data available

SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions. To avoid thermal decomposition, do not overheat.
Chemical stability	No data available
Possibility of hazardous reactions	Strong oxidizing agents
Conditions to avoid	Heat
Materials to avoid	Oxidizing agents.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO ₂).

SECTION 11. Toxicological information

Acute oral toxicity	No data available
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin irritation	No data available
Eye irritation	No data available
Sensitisation	No data available
Repeated dose toxicity	No data available
Carcinogenicity	No data available

SECTION 12. Ecological information

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Toxicity to fish	No data available

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Chronic toxicity in aquatic invertebrates	No data available
Biodegradability	No data available
Physico-chemical removability	No data available
Bioaccumulation	No data available

SECTION 13. Disposal considerations

Product	Disposal and spillages should be addressed with due consideration to local, regional and national legislations.
Packaging	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

Further Information	Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR
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SECTION 15. Regulatory information

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

Inv. of Exist. Chem. Substances in China	All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China (See chapter 3)
Canada. DSL - Domestic Substances List, part of CEPA	All chemical constituents are listed in: Canada. DSL - Domestic Substances List, part of CEPA (See chapter 3)
Australia. AICS - Australian Inventory of Chemical Substances	All chemical constituents are listed in: Australia. AICS - Australian Inventory of Chemical Substances (See chapter 3)
New Zealand Inventory of Chemical Substances	All chemical constituents are listed in: New Zealand Inventory of Chemical Substances (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety and Health Law - Inventory	All chemical constituents are listed in: Japan. Industrial Safety and Health Law - Inventory (See chapter 3)
Korea. KECI - Korean Existing Chemicals Inventory	All chemical constituents are listed in: Korea. KECI - Korean Existing Chemicals Inventory (See chapter 3)
Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances	All chemical constituents are listed in: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances (See chapter 3)

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chapter 3)

China. IECSC - Inventory of Existing Chemical Substances in China

All chemical constituents are listed in: China. IECSC - Inventory of Existing Chemical Substances in China (See chapter 3)

Taiwan. Chemical Substances Inventory (TCSI)

All chemical constituents are listed in: Taiwan. Chemical Substances Inventory (TCSI) (See chapter 3)

USA TSCA Inventory

All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)

SECTION 16. Other information

Full text of H-Statements.

This substance contains no components with H-statement.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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