



## Safety Data Sheet

### Low Density Polyethylene LM1920

Version 1.03

Revision Date 26.09.2024

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

##### Product identifier

**Trade name** Low Density Polyethylene LM1920

**Synonyms** Low Density Polyethylene, Low Density Polyethylene Homopolymer, LDPE

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

**Use** Various applications

##### Manufacturer or supplier's details

**Company Address** Sasol Chemicals, a division of Sasol South Africa Ltd  
Sasol Place, 50 Katherine Street  
Sandton  
2090  
South Africa

**Telephone** +27103445000

**E-mail address** sasolchem.info.sa@sasol.com

**Emergency telephone number** +44 (0)1235 239 670 (Europe, Israel, Africa, Americas)  
+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**

Not a hazardous substance or mixture.

##### Other hazards

None known.



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#### SECTION 3. Composition/information on ingredients

##### Not hazardous ingredient(s)

##### Polyethylene

**Contents:**  $\geq 99.00$  %W/W

**CAS-No.** 9002-88-4

**Index-No.**

**EC-No.**



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#### SECTION 4. First aid measures

##### Description of necessary first-aid measures

<b>Inhalation</b>	Product does not release fumes at ambient temperatures. If exposed to fumes from heated polymer move to fresh air environment.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Immediate medical attention is required.
<b>Most important symptoms/effects, acute and delayed</b>	

Refer to SECTION 11

#### SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Dry chemical Carbon dioxide (CO2) Water spray.
<b>Special hazards arising from the substance or mixture</b>	Substance evolves toxic gases when burned.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

#### SECTION 6. Accidental release measures

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

#### SECTION 7. Handling and storage

<b>Safe handling advice</b>	No special handling advice required under normal conditions. Molten polymer: Wear heat-resistant protective equipment.
<b>Advice on protection against fire and explosion</b>	Keep away from flames, sparks or other ignition sources. Avoid buildup of dusts. Protect against static.
<b>Requirements for storage areas and containers</b>	Keep away from direct sunlight. Keep away from heat.
<b>Advice on common storage</b>	Keep in a cool, well-ventilated place.

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### SECTION 8. Exposure controls/personal protection

#### Components with workplace control parameters

#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

#### 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

<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. In the case of respirable dust and/or fumes, use self-contained breathing apparatus.
<b>Hand protection</b>	No hand protection required under normal conditions. Molten polymer: Wear heat-resistant gloves.
<b>Eye protection</b>	No eye protection is required under normal conditions. Molten polymer: Wear safety glasses with side shields.
<b>Skin and body protection</b>	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

<b>Form</b>	Solid
<b>State of matter</b>	Solid; at 20 °C; 1,013 hPa
<b>Colour</b>	white
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	No data available
<b>pH</b>	Not applicable
<b>Melting point/range</b>	110 - 125 °C
<b>Boiling point/boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Auto-ignition temperature</b>	349 °C
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	Not applicable
<b>Relative vapour density</b>	No data available
<b>Density</b>	0.900 - 0.940 g/cm <sup>3</sup> ; 20 °C

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<b>Bulk density</b>	Not applicable
<b>Water solubility</b>	insoluble
<b>Partition coefficient: n-octanol/water</b>	Not applicable
<b>Viscosity, kinematic</b>	No data available

#### SECTION 10. Stability and reactivity

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

#### SECTION 11. Toxicological information

<b>Acute oral toxicity</b>	No data available
<b>Acute inhalation toxicity</b>	No data available
<b>Acute dermal toxicity</b>	No data available
<b>Skin irritation</b>	No data available
<b>Eye irritation</b>	No data available
<b>Sensitisation</b>	No data available
<b>Repeated dose toxicity</b>	No data available
<b>Carcinogenicity</b>	No data available

#### SECTION 12. Ecological information

<b>Toxicity to fish</b>	No data available
<b>Toxicity to daphnia and other aquatic invertebrates</b>	No data available
<b>Toxicity to algae</b>	No data available
<b>Toxicity to bacteria</b>	No data available
<b>Toxicity to fish</b>	No data available
<b>Chronic toxicity in aquatic invertebrates</b>	No data available
<b>Biodegradability</b>	No data available
<b>Physico-chemical removability</b>	No data available
<b>Bioaccumulation</b>	No data available

#### SECTION 13. Disposal considerations

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



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#### SECTION 14. Transport information

##### Further Information

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

#### SECTION 15. Regulatory information

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

USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (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 & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (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



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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.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.