Safety Data Sheet

Low Density Polyethylene LF2220

Version 1.03 Revision Date 28.10.2024

Material Safety Data Sheet

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

Trade name	Low Density Polyethylene LF2220	
Synonyms	Low Density Polyethylene, Low Density Polyethylene Homopolymer, LDPE	
Use	Applications in the food industry.	
Company	Sasol Chemicals, a division of Sasol South Africa Ltd Sasol Place, 50 Katherine Street Sandton 2090 South Africa +27103445000	
Telephone	CHEMTREC North America Transport Emergency (24-hr) CHEMTREC World Wide Transport Emergency (24-hr) MSDS and Product Information (8:00am-4:30pm CST) Sasol LCCC Main Gate Guard	(800) 424-9300 (703) 527-3887 (281) 588-3315 (337) 494-5142
E-mail address	SasolElectronicSDS@us.sasol.com	

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3 Composition/information on ingredients

Components	CAS-No.	Weight percent

Polyethylene	9002-88-4	**>= 99.00**

Exposure limit(s): See chapter 8
Classification and hazard labelling: See chapter 15

SECTION 4 First aid measures

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.

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 submerse the affected area in cold water to cool down polymer.

Inhalation Product does not release fumes at ambient temperatures. If exposed to fumes from heated polymer move to fresh air environment.

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.

SECTION 5 Firefighting measures

Fire/explosion Substance evolves toxic gases when burned.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

Suitable extinguishing media Dry chemical.
Carbon dioxide (CO2).
Water spray.

Protection measures and instructions 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.

Exposure controls/personal protection: See chapter 8

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 fire and explosion Keep away from flames, sparks or other ignition sources.Avoid buildup of dusts.Protect against static.

Storage Keep away from direct sunlight.Keep away from heat.

Further information on storage conditions **Keep in a cool, well-ventilated place.**

SECTION 8 Exposure controls/personal protection

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

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

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

Inhalation 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.

Exposure Guidelines

Components	Exposure limit(s)
	China. OELs. (Occupational Exposure Limits for Chemical Substances) Permissible concentration - Time Weighted Average (PC-TWA): (5 mg/m3) Total dust China. OELs. (Occupational Exposure Limits for Chemical Substances) Short term exposure limit (10 mg/m3) Total dust

PEL=	Permissible Exposure Limits	TWA=	Time Weighted Average (8 hr.)
TLV=	Threshold Limit Value	STEL=	Short Term Exposure Limit (15 min.)
EL=	Excursion Limit	WEEL=	Workplace Environmental Exposure Level

SECTION 9 Physical and chemical properties

State of matter	Solid
Colour	white
Odour	Odourless
Form	Solid
Boiling point/boiling range	No data available
Flash point	No data available
Decomposition Temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Solubility(ies)	insoluble
Viscosity	No data available
Melting point/range	110 - 125 °C
Density	0.900 - 0.940 g/cm3 at 20 °C
pH	Not applicable
Partition coefficient:	Not applicable

n-octanol/water

SECTION 10 Stability and reactivity

Reactivity	Stable under normal conditions. To avoid thermal decomposition, do not overheat.
Chemical stability	No data available
Conditions to avoid	Heat
Hazardous decomposition products	Carbon monoxide.Carbon dioxide (CO2).
Materials to avoid	Oxidizing agents.
Hazardous polymerisation	Strong oxidizing agents

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

Ecotoxicity effects

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
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

Waste Classification
Waste from residues / unused products Disposal and spillages should be addressed with due consideration to local, regional and national legislations.Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

Handling and storage: See chapter 7
Exposure controls/personal protection: See chapter 8

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

U.S. Federal Classifications:

OSHA Hazards No OSHA Hazards

SARA 311/312 No SARA Hazards

U.S. Regulated Ingredients:

Inventories

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)

Other international regulations

WHMIS Classification No data available

SECTION 16 Other information

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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