

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 03-February-2020 Revision Date 11-July-2022 Version 2.1

1. Identification

Product identifier

Trade Name Low Density Polyethylene (LDPE)

Product Name LDF0025, LDF0034, LDF0080, LDF0085, LDF2023, LDF2023S1, LDI 2020, LDI7022

Other means of identification

Recommended use of the chemical and restrictions on use

**Recommended use** Polymer preparations and compounds

**Restrictions on use**No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

Braskem America, Inc. 1735 Market Street Philadelphia, PA 19103-7583 TEL: (800) 396 - 5252

122. (666) 666 6262

Emergency telephone number

Emergency Telephone CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

1-800-424-9300 (NORTH AMERICA)

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust Yes

## Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

### Warning

#### **Hazard statements**

May form combustible dust concentrations in air

## Other information

Special danger of slipping by leaking/spilling product. Electrostatic charges may be generated during handling. If small particles are generated during processing or handling, this product may form combustible dust concentrations in air.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Trade secret	
Polyethylene homopolymer	9002-88-4	<100	*	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

## **Description of first aid measures**

**Inhalation** Move victim to fresh air. Medical aid is necessary if symptoms appear to be an obvious

consequence of inhalation.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if

irritation develops and persists.

**Skin contact** After contact with product or dust: Wash skin with soap and water. Get medical attention if

irritation develops and persists. After contact with molten product, cool skin area rapidly with cold water. Removal of solidified molten material from skin requires medical

assistance.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Consult a physician if necessary.

## Most important symptoms and effects, both acute and delayed

**Symptoms** Product dust may be irritating to eyes, skin and respiratory system.

# Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

# 5. Fire-fighting measures

Suitable Extinguishing Media CO2, dry chemical, dry sand, alcohol-resistant foam. Water spray or fog.

**Unsuitable extinguishing media**Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the

chemical

Avoid generation of dust. Fine dust dispersed in air may ignite. Powders, dusts, shavings,

Date: 11-July-2022

borings, turnings or cuttings may explode or burn with explosive violence.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge

Yes.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid generation of dust. Avoid contact with eyes. Use

personal protective equipment as required. Do not breathe dust. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary

measures against static discharges.

**Other information** Refer to protective measures listed in Sections 7 and 8.

## Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Prevent dust cloud.

Methods for cleaning up Take up with inert, damp, non-combustible material using clean non-sparking tools and

place into loosely covered plastic containers for later disposal. Pick up and transfer to

properly labeled containers.

# 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with eyes. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. Airborne dusts are potentially explosive. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be

conducted in accordance with 'best practices' (e.g. NFPA-654).

## Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other

chemicals. Keep container closed when not in use. Keep in an area equipped with

sprinklers.

Incompatibilities Fluorine, strong acids, strong oxidizing agents, chlorinated solvents and aromatic

compounds.

# 8. Exposure controls/personal protection

## Control parameters

**Exposure Limits** 

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Polyethylene homopolymer	Not applicable	Not applicable	Not applicable	

## **Appropriate engineering controls**

**Engineering controls** 

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

## Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). During hot processing:. Tight sealing

safety goggles. If there is a risk of contact:. Face protection shield.

**Hand protection** Wear suitable gloves. Heat resistant gloves are recommended when handling molten

materials.

**Skin and body protection** Wear suitable protective clothing. During hot processing:. Long sleeved clothing, Protective

shoes or boots.

**Respiratory protection**No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a

respirator.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust.

Do not eat, drink or smoke when using this product. Take off contaminated clothing and

wash before reuse. Regular cleaning of equipment, work area and clothing is

recommended.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance pellets
Physical state Solid

ColorWhite to off-whiteOdorOdorless or slight odor

Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks</u> • <u>Method</u>

No data available None known 105 - 120 °C / 221 - 248 °F Melting point / freezing point None known Boiling point / boiling range No data available None known Flash point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

**Upper flammability or explosive** No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure negligible None known Vapor density No data available None known 0.918 - 0.935 g/cm<sup>3</sup> Relative density None known Water solubility Insoluble in water None known Solubility(ies) Soluble in xylene None known Partition coefficient No data available None known > 350 °C None known **Autoignition temperature Decomposition temperature** No data available None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Other information

Explosive properties
Oxidizing properties
No information available.
No information available.
No information available.
No information available

### 9.2. Other information

Maximum time of storage is 24 months after production.

## 10. Stability and reactivity

**Reactivity** None under normal use conditions.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions Reacts violently with fluorine...

**Conditions to avoid** Excessive heat. Incompatible materials.

**Incompatible materials** Fluorine, strong acids, strong oxidizers, chlorinated solvents and aromatic compunds.

Hazardous decomposition products Decomposition products depend on temperature, exposure to air, and the presence of other

substances. Processing may release irritating fumes, olefinic and paraffinic compounds, carbon monoxide, and carbon dioxide. Potential thermal decomposition products include trace aldehydes (including formaldehyde), alcohols, organic acids, and hydrocarbons.

# 11. Toxicological information

## Information on likely routes of exposure

Product Information

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Dust contact with the eyes can lead to mechanical irritation.

**Skin contact** Contact with dust can cause mechanical irritation or drying of the skin.

**Ingestion** May cause irritation of the mouth, throat and stomach.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Acute toxicity

### **Numerical measures of toxicity**

Based on available data, the classification criteria are not met

	Polyeth
LD50 oral rat	

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

			,		
Chemical name	ACGIH	IARC	NTP	OSHA	
Polyethylene homopolymer 9002-88-4	-	Group 3	-	-	

## IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity**This product does not contain any known or suspected reproductive hazards.

STOT - single exposure None of the ingredients are known to cause specific target organ effects form a single

exposure.

STOT - repeated exposure None of the ingredients are known to cause specific target organ effects through prolonged

or repeated exposure.

Target organ effects Respiratory system, Eyes, Skin.

**Aspiration hazard**None of the ingredients are known to be an aspiration hazard.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product

Other adverse effects No information available.

# 13. Disposal considerations

## Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Do not release into the environment. Recover or recycle if

possible.

Additional Information Do not reuse empty containers. Do not dispose of waste into sewer. Do not dispose of with

household waste. Do not allow to enter drains.

# 14. Transport information

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

## 15. Regulatory information

NOTE: Please contact supplier for regulatory information.

#### TSCA

All components of this product are listed as active on the TSCA Inventory or exempt

## International Inventories

Contact supplier for inventory compliance status.

## **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no known chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **US State Regulations**

Contact Supplier.

#### California Proposition 65

See NOTE at top of Section 15 of SDS.

### U.S. State Right-to-Know Regulations

See NOTE at top of Section 15 of SDS.

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 1 Flammability 1 Instability 0 Physical and Chemical Properties –

HMIS Health hazards 1 Flammability 1 Physical Hazards 0 Personal Protection X

Chronic Hazard Star Legend \* = Chronic Health Hazard

### Key or legend to abbreviations and acronyms used in the safety data sheet

# Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

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Revision Note Section 1, Section 15

## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

Date: 11-July-2022

US OSHA LABEL per 29 CFR § 1910.1200(f)

# Low density polyethylene (LDPE)

# Warning

BEFORE USING, READ THE SAFETY DATA SHEET. Slipping hazard. May form combustible dust concentrations in air if small particles are generated during further processing, handling, machining, or by other means.

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**EMERGENCY PHONE NUMBER** CHEMTREC: 800-424-9300

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