SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
GB/T 16483-2008, GB/T 17519-2013

Product Name Green Low Density Polyethylene – Homo Polymer
Issuing Date 16-Aug-2021

Revision Date 29-Jul-2024
Revision Number 1.5

1. Identification

Product identifier

Product Name Green Low Density Polyethylene – Homo Polymer

English chemical name Polyethylene homopolymer

Other means of identification

Product Code(s) SBC5050R, SBC818, SBC818R50, SBC818V, SBF0323HC, SBF0323-12HC, SEB853, SEB853-72, SLD2021, SLD0224, SLD0224A, SLD0821, SLD1421, SLD2321, SLD3001A, SLD4000TP, SLD4003, SLD5050TP, SPB208, SPB608, SPB681, SPB681-59, STN7006, STS7006.

Synonyms Green LDPE

Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

Supplier
Braskem S.A.
Rua Eteno, 1561, Polo Petroquímico de Camaçari
Camaçari, BA, CEP: 42810-000, Brazil
Tel: +55 (71) 3413-3600

Emergency telephone number

Emergency telephone number CHEMTREC International: +1 703-741-5970
CHEMTREC China: +(86) 4001-204937

Recommended use of the chemical and restrictions on use

Recommended use Polymer preparations and compounds

Restrictions on use No information available

2. Hazard(s) identification

Emergency Overview

May be harmful if swallowed

Appearance Translucent. Granules. **Physical state** Solid **Odor** Not applicable

Classification of the substance or mixture

Label elements

Hazard statements
Not classified

Precautionary statements

Physical and chemical hazards
Not applicable.

Health hazards
Immediate Health Effects: If large quantities of this material are swallowed, call a physician immediately. If symptoms persist, call a physician.
Chronic effects: Not applicable.

Environmental hazards
Not applicable.

Other hazards which do not result in classification
Not applicable.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Synonyms Green LDPE

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

4. First-aid measures

Description of necessary first aid measures

Inhalation Remove 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 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. After contact with product or dust:

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed Product dust may be irritating to eyes, skin and respiratory system.

For emergency responders No information available.

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media CO_2, 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, borings, turnings or cuttings may explode or burn with explosive violence.

Special protective actions 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. Do not breathe dust. Avoid contact with eyes. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations. Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Take precautionary measures against static discharge.

7. Handling and storage

Precautions for 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 Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Keep in an area equipped with sprinklers.

Incompatible materials Fluorine. Strong acids. Strong oxidizing agents. Aromatic compounds.

8. Exposure controls/personal protection

Occupational exposure limits

Chemical name	China	ACGIH TLV
Polyethylene homopolymer	TWA: 5 mg/m^3 total dust	-

Monitoring and observation processes
No applicable information was found.

Engineering controls
Showers
Eyewash stations
Ventilation systems.

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.

Skin and body protection
Wear suitable protective clothing. Long sleeved clothing. Protective shoes or boots. During hot processing:

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

Respiratory protection
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 it 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	Translucent. Granules.
Physical state	Solid
Color	White
Odor	Not applicable
Odor threshold	Not applicable

Property	Values	Remarks • Method
pH		Not applicable
Melting point / freezing point		No data available
Initial boiling point and boiling range		Not applicable
Flash point		No data available
Evaporation rate		No data available
Flammability		Not flammable
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Vapor pressure		Not applicable
Vapor density		Not applicable
Relative density		No data available
Water solubility	Insoluble	
Solubility(ies)	Xylene	
Partition coefficient		No data available
Autoignition temperature	350 °C	
Decomposition temperature		No data available
Kinematic viscosity		No data available

Dynamic viscosity	No data available

Additional information

Explosive properties	No information available.
Oxidizing properties	No information available.
Bulk density	0.918 - 0.924 g/cm^3
Particle characteristics	Not applicable

10. Stability and reactivity

Stability Stable under normal conditions.

Possibility of hazardous reactions Reacts violently with fluorine.

Reactivity None under normal use conditions.

Conditions to avoid High temperature. Dust formation.

Incompatible materials Fluorine. Strong acids. Strong oxidizing agents. Aromatic compounds.

Hazardous decomposition products Decomposition products depend on temperature, exposure to air, and the presence of other substances. Processing may release irritating fumes.

11. Toxicological information

Information on likely routes of exposure

Product Information .

Inhalation Specific test data for the substance or mixture is not available. Inhalation of dust in high concentration may cause irritation of respiratory system.

Skin contact Specific test data for the substance or mixture is not available. Contact with dust can cause mechanical irritation or drying of the skin.

Eye contact Specific test data for the substance or mixture is not available. Dust contact with the eyes can lead to mechanical irritation.

Ingestion Specific test data for the substance or mixture is not available. May be harmful if swallowed. 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
No information available

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity

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

Chemical name	China	IARC
Polyethylene homopolymer	-	Group 3

Legend

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity No information available.

Specific target organ toxicity (single exposure) No information available.

Specific target organ toxicity (repeated exposure) No information available.

Aspiration hazard No information available.

12. Ecological information

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

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

Other adverse effects No information available.

13. Disposal considerations

Waste chemicals Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

China Not regulated

IMDG Not regulated

IATA Not regulated

Special precautions for user
Please refer to the applicable dangerous goods regulations for additional information

15. Regulatory information

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

National regulations

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalog of occupational hazard factors: Listed. Inhalation of dust/particles.
Catalog of occupational diseases: Listed. pneumoconiosis.

Chemical name	Category
Polyethylene homopolymer	Inhalation of dust/particles

Regulations on the Control over Safety of Hazardous Chemicals
Inventory of hazardous chemicals
Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used
Inventory of highly toxic goods Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals
List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances Contains listed substance(s): 1-Butene, polymer with ethene (CAS no. 25087-34-7).

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

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Abbreviations and acronyms
Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

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

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 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
World Health Organization

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End of Safety Data Sheet