



# 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** 18-Jan-2023

**Revision Number** 1.3

## 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, SLD3001A, SDL4000TP, 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**

<b>Inhalation</b>	Remove to fresh air. Medical aid is necessary if symptoms appear to be an obvious consequence of inhalation.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	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:
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
<b>Most important symptoms/effects, acute and delayed</b>	Product dust may be irritating to eyes, skin and respiratory system.
<b>For emergency responders</b>	No information available.
<b>Note to physicians</b>	Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

<b>Suitable Extinguishing Media</b>	CO2, dry chemical, dry sand, alcohol-resistant foam. Water spray or fog.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards arising from the chemical</b>	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.
<b>Special protective actions for fire-fighters</b>	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

<b>Personal precautions</b>	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.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.
<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods and material for containment and cleaning up</b>	Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.
<b>Precautions to prevent secondary hazards</b>	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

<b><u>Precautions for safe handling</u></b>	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).
<b><u>Conditions for safe storage, including any incompatibilities</u></b>	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.
<b>Incompatible materials</b>	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 <sup>3</sup> total dust	-

**Monitoring and observation processes**

No applicable information was found.

<b>Engineering controls</b>	Showers Eyewash stations Ventilation systems.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	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.
<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing. Protective shoes or boots. During hot processing:
<b>Hand protection</b>	Wear suitable gloves. Heat resistant gloves are recommended when handling molten materials.
<b>Respiratory protection</b>	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.
<b>General hygiene considerations</b>	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**

<b>Appearance</b>	Translucent. Granules.
<b>Physical state</b>	Solid
<b>Color</b>	White
<b>Odor</b>	Not applicable
<b>Odor threshold</b>	Not applicable

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

**Additional information**

<b>Explosive properties</b>	No information available.
<b>Oxidizing properties</b>	No information available.
<b>Bulk density</b>	0.918 - 0.924 g/cm <sup>3</sup>
<b>Particle characteristics</b>	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****Issuing Date** 16-Aug-2021**Revision Date** 18-Jan-2023**Revision Note** Initial Release.**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**

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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

**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**