

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Vietnam, Decree No. 113/2017/ND-CP, Circular no. 32/2017/TT-BCT



Chemical codes and product name

CAS No No information available

UN number or ID number Not regulated

EC No (EU Index No) No information available

Hazard rating of standard rating organizations (if applicable): No information available

Health hazards

Flammability

Instability

Special hazards

0

1

0

-

Registration number in other countries (if applicable):

No information available

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Revision Number 1.3

1. Identification

Common name of chemical No information available

Trading name I'm green bio-based™ Polyethylene – High Density

Product Code(s) SGE7252NS, SGF4950, SGF4950HS, SGM9450F, SHA7260, SHC7260, SHD0356, SHD0860, SHD0952, SHD1760, SHD1260, SHD2260, SHD2560, SHE150, STGE7252NS, STGF4950, STGM9450F, STHA7260, STHC7260, STHD0860, STHD2560, STHE150, SHD2055NW

Name and address of supplier or importer

Supplier

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

Name and address of manufacturer

Manufacturer

No information available

Intended use

Recommended use

Polymer preparations and compounds
Industrial
For professional use only

Contact in emergency:

Emergency telephone

Chemtrec (Vietnam): +(84)-444581938
CHEMTREC International: +1 703-741-5970

2. Hazard(s) identification

1 GHS Classification

Not classified

2 Hazard warning

Hazard statements

Not classified

Other hazards which do not result in classification

May be harmful if swallowed

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 Route of exposure and symptoms

Eye contact	Specific test data for the substance or mixture is not available. Dust contact with the eyes can lead to mechanical irritation.
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.
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	Product dust may be irritating to eyes, skin and respiratory system.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Not classified

The product contains no substances which at their given concentration, are considered to be hazardous to health

Chemical name	CAS No	Weight-%
1-Butene, polymer with ethene	25087-34-7	<100

4. First-aid measures

Description of necessary first aid measures

1 For accidents with exposure of eye

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

2 For accidents with exposure of skin

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.

3 For accidents with exposure by inhalation

Remove to fresh air. Medical aid is necessary if symptoms appear to be an obvious consequence of inhalation.

4 For accidents with exposure by swallowing

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and afterwards drink plenty of water.

5 Note to physicians

Treat symptomatically.

Symptoms

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

Effects of Exposure

No information available.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

5. Fire-fighting measures

1 Flammable properties

Not applicable.

2 Hazardous combustion products

Decomposition products depend on temperature, exposure to air, and the presence of other substances. Potential thermal decomposition products include trace aldehydes (including formaldehyde), alcohols, organic acids, and hydrocarbons.

3 Agents that cause fire and explosion or other specific hazards

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.

4 Appropriate fire extinguishers and fire fighting instructions, other combined 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.

5 Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6 Special attention to fire and explosion

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

6. Accidental release measures

1 When there is small scale leakage or spilling

Small spill Use personal protective equipment as required. Collect and dispose. See Sections 8 & 13 for additional information.

2 When there is large scale leakage or spilling

Personal precautions

Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with eyes. Use personal protective equipment as required. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges.

Environmental precautions

See Section 12 for additional Ecological Information.

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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

1 Measures and conditions to be applied when using or working with dangerous chemicals

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. 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).

2 Measures and conditions to be applied when storing chemicals

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

Incompatible materials Strong oxidizing agents.

8. Exposure controls/personal protection

1 Measures necessary to limit exposure

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Appropriate engineering controls

Showers
Eyewash stations
Ventilation systems.

2 Personal protective equipment when working

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. During hot processing: Long sleeved clothing. Protective shoes or boots.

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

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. 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.

3 Protective equipment when responding to an incident

Additional protective equipment such as chemically resistant suit, boots and face shield should be used based upon task being performed.

4 Hygiene Measures

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	Pellets
Physical state	Solid
Color	White to off-white
Odor	No information available
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No data available
Melting point / freezing point		No data available
Initial boiling point and boiling range		No data available
Flash point		No data available
Evaporation rate		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Vapor pressure		No data available
Relative vapor density		No data available
Relative density		No data available
Water solubility	Insoluble in water	
Solubility in other solvents		No data available
Partition coefficient		No data available
Autoignition temperature	350 °C / 662 °F	
Decomposition temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available

Other information

Explosive properties	No information available.
Oxidizing properties	No information available.
Softening point	No information available
Molecular weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	0.940 – 0.970 g/cm ³

10. Stability and reactivity

1 Stability

Stable under normal conditions.

2 Reactivity

None under normal use conditions.

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.

Possibility of hazardous reactions

Reacts strongly with fluorine.

Incompatible materials

Strong oxidizing agents.

Conditions to avoid

High temperature. Dust formation.

Hazardous polymerization

None under normal processing.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available. Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	Specific test data for the substance or mixture is not available. Dust contact with the eyes can lead to mechanical irritation.
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.
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 Product dust may be irritating to eyes, skin and respiratory system.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) >4000 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-Butene, polymer with ethene	= 4 g/kg (Rat)	-	-

1 Long-term impact to humans

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	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.

2 Other toxic effects

Aspiration hazard No information available.

12. Ecological information

1 Toxicity to organisms

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

2 Environmental impact

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in soil

No information available.

Mobility

No information available.

Other adverse effects

No information available.

13. Disposal considerations

1 Information on disposal requirements

Take note of national technical regulations on the environment.

2 Hazardous waste classification

National Technical Regulation on the threshold for hazardous waste

Not applicable.

3 Waste treatment measures

Waste from residues/unused products

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

4 Waste destruction by-products, disposal measures

Contaminated packaging

Do not reuse empty containers.

14. Transport information

IMDG Not regulated

IATA Not regulated

ADR Not regulated

15. Regulatory information

1 Declaration status, registered in the regional countries of the world

Contact supplier for inventory compliance status

2 Classifying of risk by country

Hazard rating of standard rating organizations (if applicable): No information available

Health hazards
0

Flammability
1

Instability
0

Special hazards
-

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

3 Compliance with technical regulations

Applicable regulations: No applicable information was found

16. Other information

Note to the reader:

The information in the chemical safety data sheet is compiled with the newest and most valid knowledge of dangerous chemicals and must be used to implement measures to prevent risks and accidents

Dangerous chemicals in these sheets have other hazardous properties depending on the circumstances of use and exposure

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Revision Note Initial Release.

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

IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
NFPA	National Fire Protection Association (NFPA), United States of America

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

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