

# SAFETY DATA SHEET



Product name: Green High Density

Revision date: 11/04/2025

Initial preparation date: 8/4/2021

Compiled according to GB/T 16483, GB/T 17519

SDS Nr: P2021072730

Version: 2.4

## SECTION 1 Chemical product and company identification

**Product name (Chinese Name)** : 绿色高密度

**Product name (English name)** : Green High Density

**Product code** : SGE7252NS, SGE7252XP, SGF4950, SGF4950HS, SGF4950TT, SGM7746C, SGM9450F, SHA7260, SHC7260, SHD0356, SHD0860, SHD0952, SHD1760, SHD2560, SHE150, STGE7252NS, STGF4950, STGM9450F, STHA7260, STHC7260, STHD0860, STHD2560, STHE150, SHD2055NW.

**Name of Supplier** : Braskem S/A

Address : Brazil Bahia/BA Rua Eteno 1561 - Pólo Petroquímico de Camaçari, BA, Brasil

Zip code : 42810-000

Tel. : +55 (71) 3413-3600

Email : productsafety@braskem.com

**Emergency number** : +(86) 4001-204937

**Recommended use** : For professional use only  
Polymer preparations and compounds

## SECTION 2 Hazards identification

### Emergency overview

White to off-white granular solid. Non flammable.

### GHS classification

Not classified

### Label elements

Not applicable

### Physical and chemical hazards

No additional information available

### Health hazards

Symptoms/effects after eye contact : Dusts are mechanical irritants, Dust or fume may cause eye irritation, Effects may include discomfort or pain and redness

Symptoms/effects after ingestion : Choking hazard

Symptoms/effects after inhalation : Fumes are irritating to the respiratory system, Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure

Symptoms/effects after skin contact : Dust from this product may cause skin irritation, The melted product adheres to the skin and causes burns

**Environmental hazards**

No additional information available

**Other hazards**

Spills of this product present a serious slipping hazard

Electrostatic charges may be generated during handling

Dust could be formed as a result of granule degradation by impact or by abrasion during handling, grinding, or conveying operations

Dust from this product may cause respiratory irritation

### SECTION 3 Composition/information on ingredients

Product form : Mixture.

Name	CAS-No.	Concentration (%)
1-Butene, polymer with ethene	25087-34-7	< 100

### SECTION 4 First aid measures

**Emergency**

First-aid measures general : Never give anything by mouth to an unconscious person.  
If you feel unwell, seek medical advice (show the label where possible)

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
Allow the victim to rest

First-aid measures after skin contact : After contact with the molten product, cool rapidly with cold water.  
Do not attempt to remove the molten material from the skin.  
Burns caused by molten material must be treated clinically.  
Wash skin with plenty of water

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Obtain medical attention if pain, blinking or redness persists.  
Consult an eye specialist.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious).

Obtain emergency medical attention.  
Immediately call a POISON CENTER/doctor.  
Do not induce vomiting without medical advice.  
May cause gastrointestinal blockage. Do not give laxatives.  
Call a poison center or a doctor if you feel unwell

#### Most Important Symptoms/Effects

Symptoms/effects after eye contact	:	Dusts are mechanical irritants Dust or fume may cause eye irritation Effects may include discomfort or pain and redness
Symptoms/effects after ingestion	:	Choking hazard
Symptoms/effects after inhalation	:	Fumes are irritating to the respiratory system Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure
Symptoms/effects after skin contact	:	Dust from this product may cause skin irritation The melted product adheres to the skin and causes burns

#### Personal Protection in First Aid and Measures

No additional information available

#### Notes for the doctor

Note to physician : : Treat symptomatically

## SECTION 5 Fire fighting measures

#### Extinguishing media

Suitable extinguishing media	:	Foam Dry powder Carbon dioxide Water spray Sand
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire

#### Special hazard

Fire hazard	:	Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases
Hazardous decomposition products in case of fire	:	Toxic fumes may be released
Explosion hazard	:	Dust could be formed as a result of granule degradation by impact or by abrasion during handling, grinding, or conveying operations Potential dust explosion hazard from airborne release

#### Advice for firefighters and protective measures

Firefighting : Use water spray or fog for cooling exposed containers

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instructions	Avoid creating or spreading dust Knock down/dilute dust cloud with water spray Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment Avoid direct water stream on molten material. Molten form explodes upon contact with water
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection Do not attempt to take action without suitable protective equipment Self-contained breathing apparatus Complete protective clothing
Other information	: Avoid raising powdered materials into airborne dust Dust may form flammable and explosive mixture with air

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

General measures	: Avoid creating or spreading dust Provide adequate ventilation to minimize dust concentrations Take precautionary measures against static discharge. Avoid contact with skin, eyes and clothing Spills of this product present a serious slipping hazard Do not breathe fume, vapours, dust.
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#### For non-emergency personnel

Emergency procedures	: Ventilate spillage area Evacuate unnecessary personnel
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#### For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment Equip cleanup crew with proper protection For further information refer to section 8: "Exposure controls/personal protection"
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Emergency procedures	: Ventilate area
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Environmental precautions	: Avoid release to the environment Prevent entry to sewers and public waters Notify authorities if liquid enters sewers or public waters
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### Methods and Equipment for Containment and Cleaning up

Methods for cleaning	: Mechanically recover the product. Sweep or shovel spills into appropriate container for disposal. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient
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concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimise generation of dust. Take precautionary measures against static discharge. Use only non-sparking tools. Store away from other materials. Ensure all national/local regulations are observed. Comply with applicable regulations for solid waste disposal.

For containment : Sweep or shovel spills into appropriate container for disposal.

#### Prevention Measures for Secondary Accidents

Prevention Measures for Secondary Accidents : No additional information available

Other information : Dispose of materials or solid residues at an authorized site

## SECTION 7 Handling and storage

### Handling

Precautions for safe handling : Ensure good ventilation of the work station  
Wear personal protective equipment  
Warning: may form combustible (explosive) dust - air mixtures. Prevent dust accumulations to minimise explosion hazard  
Obtain special instructions before use.  
Provide good ventilation in process area to prevent formation of vapour  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharge.  
Keep container closed when not in use  
Avoid raising powdered materials into airborne dust  
Avoid contact with skin, eyes and clothing  
Do not breathe dust, fume.  
Minimise dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres  
Proper grounding procedures to avoid static electricity should be followed

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work  
Handle in accordance with good industrial hygiene and safety practice  
Do not eat, drink or smoke when using this product.  
Always wash hands after handling the product

Additional hazards when processed : Handling this product may result in electrostatic accumulation. Use proper grounding procedures

**Storage**

Storage conditions : Keep only in the original container in a cool well ventilated place  
Keep container closed when not in use  
Keep away from open flames, hot surfaces and sources of ignition  
Store in a well-ventilated place.  
Keep cool.

Technical measures : Provide adequate ventilation to minimize dust concentrations  
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure  
Proper grounding procedures to avoid static electricity should be followed  
Use only non-sparking tools.

Material used in packaging/containers : No additional information available

Incompatible materials : Strong acids. Strong oxidizing agents.

## SECTION 8 Exposure controls / Personal protection equipment

**Occupational Exposure Limits**

No additional information available

**Biological limit values**

No additional information available

**Monitoring methods**

No additional information available

**Appropriate engineering controls** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure  
Provide local exhaust or general room ventilation to minimize exposure to dust  
Provide adequate ventilation to minimize dust concentrations  
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. 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). Use only appropriately classified electrical equipment and powered industrial trucks  
Ensure good ventilation of the work station

#### Personal protective equipment

- Personal protective equipment : Avoid all unnecessary exposure  
For certain operations, additional Personal Protection Equipment (PPE) may be required
- Environmental exposure controls : Avoid release to the environment.
- Other information : Do not eat, drink or smoke during use
- Hand protection : Wear protective gloves to help prevent mechanical injury. For thermal protection from molten material, wear gloves with insulation. Check the resistance to chemicals and heat when choosing protective gloves
- Eye protection : Safety glasses with side shields should be worn when handling pellets. During hot processing, wear tightly fitting goggles and/or face shield when the possibility for eye contact exists  
Safety glasses
- Skin and body protection : Personal protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling  
When handling molten material, thermally-protective long sleeved clothing, boots and gloves should be worn
- Respiratory protection : Respirators may be required if respirable and total dust exposure limits are exceeded or irritation is experienced  
Wear appropriate mask  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/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

## SECTION 9 Physical and chemical properties

- Physical state : Solid
- Appearance : Granular solid
- Colour : White to off-white
- Odour : No data available
- pH : No data available

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Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: 350 ° C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 ° C	: No data available
Relative density	: 0,940-0,970 g/cm <sup>3</sup>
Density	: No data available
Solubility	: Soluble in:, Xylene.
Solubility in water	: Insoluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive limits (vol %)	: Not applicable
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
Radioactive	: No

## SECTION 10 Stability and reactivity

Reactivity	: No dangerous reactions known under normal conditions of use
Chemical stability	: Stable under normal conditions of use
Possibility of hazardous reactions	: Hazardous polymerization will not occur
Conditions to avoid	: Overheating
Incompatible materials	: Strong acids Strong oxidizers
Hazardous decomposition products	: fume Carbon monoxide Carbon dioxide
Other properties	: No additional information available

## SECTION 11 Toxicological information

Acute toxicity	
Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the



Acute toxicity (inhalation) : classification criteria are not met)  
: Not classified (Based on available data, the  
classification criteria are not met)

**Skin corrosion/irritation**

Skin corrosion/irritation : Not classified (Based on available data, the classification  
criteria are not met)

**Serious eye damage/irritation**

Serious eye : Not classified (Based on available data, the classification  
damage/irritation criteria are not met)

**Respiratory or skin sensitisation**

Respiratory or skin : Not classified (Based on available data, the classification  
sensitisation criteria are not met)

**Germ cell mutagenicity**

Germ cell mutagenicity : Not classified (Based on available data, the classification  
criteria are not met)

**Carcinogenicity**

Carcinogenicity : Not classified (Based on available data, the classification  
criteria are not met)

**Reproductive toxicity**

Reproductive toxicity : Not classified (Based on available data, the classification  
criteria are not met)

**STOT-single exposure**

STOT-single exposure : Not classified (Based on available data, the classification  
criteria are not met)

**STOT-repeated exposure**

STOT-repeated exposure : Not classified (Based on available data, the classification  
criteria are not met)

**Aspiration hazard**

Aspiration hazard : Not classified (Based on available data, the classification  
criteria are not met)

## SECTION 12 Ecological information

**Ecotoxicity**

Ecology – general : Material in pellet or bead form may mechanically cause  
adverse effects if ingested by waterfowl or aquatic

life.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification

No additional information available

#### Persistence and degradability

Green High Density	
Persistence and degradability	This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected

#### Bioaccumulative potential

No additional information available

#### Mobility in soil

No additional information available

#### Other adverse effects

Classification procedure (Ozone) : No data available

Effect on the ozone layer : No additional information available

Other information : Avoid release to the environment.

## SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector' s sorting instructions.

Additional information : Do not re-use empty containers, Do not dispose of waste into sewer, Do not remove as household garbage.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations  
Ensure all national/local regulations are observed  
Consult an expert on waste disposal or treatment  
Return in the shipping container properly labeled with any valve outlet plugs or caps secured and valve protection cap in place to supplier for proper disposal

Ecology - waste materials : Avoid release to the environment.  
Prevent contamination of soil, drains and surface waters

## SECTION 14 Transport information

Overland transport (JT/T 617)	Transport by sea	Air transport
UN number		
Not regulated	Not regulated	Not regulated
UN proper shipping name		
Not regulated	Not regulated	Not regulated
Transport document description		
Not regulated	Not regulated	Not regulated
Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated
Packing group		
Not regulated	Not regulated	Not regulated
Environmental hazards		
Not regulated	Not regulated	Not regulated

**Special transport precautions**

Overland transport (JT/T 617)

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

## SECTION 15 Regulatory information

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing : Contains listed substance(s)

Chemical Substances in China (IECSC) 1-Butene, polymer with ethene (CAS-No. 25087-34-7)

For regulatory issues and global inventory, contact: [productsafety@braskem.com](mailto:productsafety@braskem.com)

## SECTION 16 Other information

Other information : None

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