

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008

Issuing Date 21-Nov-2022 Revision Date 20-Dec-2022 **Revision Number** 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

SBC5050R, SBC818, SBC818R50, SBC818V, SBF0323HC, SBF0323-12HC, SEB853, Product Code(s)

SEB853-72, SLD2021, SLD0224, SLD0224A, SLD3001A, SLD4000TP, SLD4003,

SLD5050TP, SPB208, SPB608, SPB681, SPB681-59, STN7006, STS7006

**Product Name** Green Low Density Polyethylene

**Synonyms** Green LDPE

Pure substance/mixture Mixture

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Polymer preparations and compounds

Uses advised against No information available

#### 1.3. Details of the supplier of the safety data sheet

## **Supplier**

Braskem Netherlands BV Weena 238-240, 9th Floor Tower C NL - 3012NJ- Rotterdam, Netherlands Telephone: +31 10 798 5002

## For further information, please contact

E-mail address polymer.compliance-europe@braskem.com

## 1.4. Emergency telephone number

**Emergency telephone** CHEMTREC: +1 703-741-5970 (24h)

Emergency telephone - §45 - (EC)1272/2008 112 Europe

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

#### **Hazard statements**

Not classified

# Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

## 2.3. Other hazards

Special danger of slipping by leaking/spilling product. Electrostatic charges may be generated during handling. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapor mixtures may occur.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Polyethylene homopolymer 9002-88-4	< 100	No data available	618-339-3	[C]	-	-	-

<sup>[</sup>C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

# Full text of H- and EUH-phrases: see section 16

#### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapour - mg/L	
Polyethylene homopolymer 9002-88-4	> 4000 mg/Kg	-	-	-	-

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# SECTION 4: First aid measures

## 4.1. Description of 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 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

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assistance.

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

Never give anything by mouth to an unconscious person.

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

**Symptoms** None known.

## 4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

# SECTION 5: Firefighting measures

# 5.1. Extinguishing media

**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.

#### 5.2. Special hazards arising from the substance or mixture

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.

#### 5.3. Advice for firefighters

Specific/special fire-fighting

measures

Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter

protection, and actions to control or extinguish the fire.

Special protective equipment and

precautions for fire-fighters

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

gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

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.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

## 6.3. 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 labelled containers.

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Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information See section 13 for more information

# SECTION 7: Handling and storage

## 7.1. 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. 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).

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 all contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is recommended.

## 7.2. 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.

Storage class (TRGS 510) LGK 11.

7.3. Specific end use(s)

Specific use(s) Polymer preparations and compounds. Industrial. Professional use.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

# **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Polyethylene	-	-	-	TWA: 10.0 mg/m <sup>3</sup>	-
homopolymer					
9002-88-4					
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Polyethylene	-	TWA: 5 mg/m <sup>3</sup>	-	-	-
homopolymer					
9002-88-4					
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Polyethylene	-	-	=	TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
homopolymer					
9002-88-4					

### **Biological occupational exposure limits**

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

regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

#### 8.2. Exposure controls

Engineering controls Showers

Eyewash stations Ventilation systems.

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. Eye protection must

conform to standard EN 166.

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

conform to standard EN 374.

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

shoes or boots.

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.

**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 all contaminated clothing and

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

recommended.

**Environmental exposure controls** No information available.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

**Appearance** Translucent. Granules.

Physical state Solid Colour White

Odour Odour threshold Not applicable Not applicable

Property Values Remarks • Method

Melting point / freezing point
Initial boiling point and boiling
No data available
Not applicable

range

Flammability Not flammable

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

350 °C

limits

Flash point No data available

Autoignition temperature

Decomposition temperatureNo data availablepHNot applicable

pH (as aqueous solution)

Kinematic viscosity

Dynamic viscosity

No data available

No data available

No data available

Water solubility Insoluble Solubility(ies) Xylene

Partition coefficientNo data availableVapour pressureNot applicableRelative densityNo data available

**Bulk density** 0,918 – 0,924 g/cm<sup>3</sup>

Liquid Density

Vapour density

Particle characteristics

Particle Size

Particle Size Distribution

No data available

No data available

No data available

#### 9.2. Other information

### 9.2.1. Information with regards to physical hazard classes

Not applicable

### 9.2.2. Other safety characteristics

No information available

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

**Reactivity** None under normal use conditions.

# 10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

**Sensitivity to mechanical impact** None. **Sensitivity to static discharge** None.

# 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Reacts strongly with fluorine.

10.4. Conditions to avoid

**Conditions to avoid** High temperature. Dust formation.

10.5. Incompatible materials

**Incompatible materials** Fluorine. Strong acids. Strong oxidising agents. Chlorinated solvents. Aromatic compounds.

# 10.6. Hazardous decomposition products

**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.

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# SECTION 11: Toxicological information

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### 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.

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 cause irritation of the

mouth, throat and stomach. May be harmful if swallowed.

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

Symptoms None known.

## **Acute toxicity**

# **Numerical measures of toxicity**

Based on available data, the classification criteria are not met.

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

ATEmix (oral) >4000 mg/kg

# **Unknown acute toxicity**

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylene homopolymer	> 4000 mg/kg (Rat)	-	-

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

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitisation** 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.

**Aspiration hazard** No information available.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

# SECTION 12: Ecological information

# 12.1. Toxicity

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

# 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

Mobility in soil No information available.

# 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

# 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

# 12.7. Other adverse effects

Other adverse effects No information available.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste from residues/unused

products

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

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations

According to the European Waste Catalogue, Waste Codes are not product specific, but according to EWC / AVV application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

# **SECTION 14: Transport information**

<u>IMDG</u>	Not regulated
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID	Not regulated
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

ADR	Not regulated
	•
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

<u>IATA</u>	Not regulated
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable

14.6 Special Precautions for Users

**Special Provisions** None Note: None

# **SECTION 15: Regulatory information**

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

# National regulations

#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Polyethylene homopolymer	RG 66
9002-88-4	

# Germany

Water hazard class (WGK) non-hazardous to water (nwg)

#### **Netherlands**

Water contaminating class (Netherlands)

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Mutagens	Reproductive Toxins
Polyethylene homopolymer	-	-	-

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

# **Persistent Organic Pollutants**

Not applicable

# Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### **International Inventories**

Contact supplier for inventory compliance status

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

# SECTION 16: Other information

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

Legend

ATE: Acute Toxicity Estimate

SVHC: Substances of Very High Concern for Authorisation: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

## Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method

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Acute inhalation toxicity - vapour	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitisation	Calculation method	
Skin sensitisation	Calculation method	
Mutagenicity	Calculation method	
Carcinogenicity	On basis of test data	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Acute aquatic toxicity	Calculation method	
Chronic aquatic toxicity	Calculation method	
Aspiration hazard	Calculation method	
Ozone	Calculation method	

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

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

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

Australian 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)

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

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **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**