

Issuing Date 16-Aug-2021

Revision Date 29-Sep-2023

Revision Number 2.0

1. Identification

Product identifier

Product Name Braskem Sensitis 22-25

Other means of identification

Product Code(s) P523

UN/ID no UN3082

Recommended use of the chemical and restrictions on use

Recommended use Lubricants
Waxes
Antifoaming
Silicons
Water treatment
Industrial uses
Cosmetics

Uses advised against No information available.

Details of the supplier of the safety data sheet

Manufacturer

Braskem S.A.
Av. Presidente Costa e Silva, 1178 –
Capuava
Santo André, SP, CEP: 09270-001, Brasil
Telephone: +55 (11) 4478-1777

E-mail address productsafety@braskem.com

Emergency telephone number

Emergency telephone CHEMTREC: +1 703-741-5970 (24h)
CHEMTREC Brazil (Rio De Janeiro): +(55)-2139581449 Portuguese
CHEMTREC Brazil (São Paulo): +(55)-1143491359 Portuguese
CHEMTREC Brazil: 0800 892 0479 Portuguese

2. Hazard(s) identification

GHS Classification Most Important Hazards

Classification assessment completed in accordance with ABNT NBR 14725-2.

Aspiration hazard	Category 1
Hazardous to the Aquatic Environment - Chronic Hazard	Category 2
Flammable liquids	Category 4

Label elements

**Signal word**

Danger

Hazard statements

Combustible liquid

Toxic to aquatic life with long lasting effects

May be fatal if swallowed and enters airways

Precautionary Statements - Prevention

Avoid release to the environment

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Collect spillage

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

No information available.

3. Composition/information on ingredients**Pure substance/mixture**

Substance.

Substance

Chemical name	CAS No	Weight-%
Alkanes, C10-13-iso-	68551-17-7	100

4. First-aid measures**Description of first aid measures****General advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation

Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct

contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur.

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms	May cause redness and tearing of the eyes. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.
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5. Fire-fighting measures

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	No information available.
Specific hazards arising from the chemical	Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.
Explosive properties	
Sensitivity to static discharge	Yes.
Sensitivity to mechanical impact	None.
Special protective equipment 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	Evacuate personnel to safe areas. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Ensure adequate ventilation. Use personal protective equipment as required. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Other information	Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Ventilate closed spaces before entering. Avoid breathing dust or spray mist.

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

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Empty containers may contain hazardous residues. Wash hands before and after use. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only in well-ventilated areas.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store away from other materials. Proper grounding procedures to avoid static electricity should be followed.

Incompatible materials Strong acids. Strong bases.

8. Exposure controls/personal protection

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

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Hand protection	Impervious gloves. Nitrile rubber. Polyvinyl chloride (PVC). Polyvinyl alcohol. For additional information, consult the PPE (Personal Protection Equipment) supplier.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.
Environmental exposure controls	No information available.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Appearance	Clear liquid
Physical state	Liquid
Color	Colorless
Odor	Characteristic
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	218 - 259 °C	No data available
Flash point	90 °C	No data available
Evaporation rate	0.005	No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits	2.9%	No data available
Lower flammability or explosive limits	0.8%	No data available
Vapor pressure	0.46 kPa	@ 20 °C
Vapor density		No data available
Relative density	0.778 - 0.788	Water = 1
Water solubility	Insoluble in water	No data available
Solubility(ies)	Soluble in: Chloroform,	No data available
Partition coefficient		No data available
Autoignition temperature	325 °C	No data available
Decomposition temperature		No data available
Kinematic viscosity	2,3 - 3,4 cSt @37,8°C	No data available
Dynamic viscosity	No information available.	No data available
Explosive properties	No information available.	
Oxidizing properties	No information available.	

Other information

Softening point	No information available
Molecular weight	No information available

VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and reactivity

Reactivity

Reactivity	None under normal use conditions.
Sensitivity to static discharge	Yes.
Sensitivity to mechanical impact	None.

Chemical stability

Stability	Stable under normal conditions.
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Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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Conditions to avoid

Conditions to avoid	Heat, flames and sparks. Overheating. Extremely high or low temperatures. Protect from direct sunlight.
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Incompatible materials

Incompatible materials	Strong acids. Strong bases.
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Hazardous decomposition products

Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO ₂). May release flammable gases.
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11. Toxicological information

Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	May cause redness and tearing of the eyes. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.
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Acute toxicity

Numerical measures of toxicity

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Alkanes, C10-13-iso-	-	> 5000 mg/kg (Rabbit)	-

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 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.
Target organ effects	No information available.
Neurological effects	No information available.
Aspiration hazard	May be fatal if swallowed and enters airways.

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	No information available.
Mobility in soil	No information available.
Bioaccumulation	No information available.

13. Disposal considerations

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.

14. Transport information**Land Transport - ANTT**

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C10-13-iso-)
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UN number	UN3082
Transport hazard class(es)	9
Packing group	III
Hazard identification number	90
Environmental hazards	Yes

Maritime Transport - IMDG

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C10-13-iso-)
UN number	UN3082
Transport hazard class(es)	9
Packing group	III
Environmental hazards	Yes
Marine pollutant	Yes
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC Code:	
Product name	Consult IMO regulations before transporting in bulk

Air transport - IATA

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Alkanes, C10-13-iso-)
UN number	UN3082
Transport hazard class(es)	9
Packing group	III
Environmental hazards	Yes

This information does not intend to convey all specific regulatory or operational requirements/information relating to the product, therefore it cannot be considered exhaustive. Consult ANTT, IMO and ICAO regulations before transporting the product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory information

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

Brazil

See section 8 for national exposure control parameters

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

International Inventories

Contact supplier for inventory compliance status

16. Other information

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

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

Issuing Date 16-Aug-2021
Revision Date 29-Sep-2023
Revision Note Initial Release.

This safety data sheet was created pursuant to the requirements of: ABNT NBR 14725-4:2014, ABNT NBR 14725-2:2009.

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