

SECTION 1: Identification of Product and Company

1.1. Product identifier

Trade name	: Braskem Pluract™ 10+
Chemical name	: Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified
Product code	: P512
Recommended use	: Intermediate, Paints and coatings (and related auxiliaries), Manufacture of rubber products, Use in Agrochemicals, For professional use only

1.2. Company identification

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

productsafety@braskem.com

Emergency number	: CHEMTREC Brazil (Rio De Janeiro): +(55)-2139581449 Portuguese CHEMTREC Brazil (São Paulo): +(55)-1143491359 Portuguese CHEMTREC Brazil: 0800 892 0479 Portuguese CHEMTREC International: +1 703 527 3887
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725)

Flammable liquids, Category 4
 Skin corrosion/irritation, Category 2
 Carcinogenicity, Category 1B
 Specific target organ toxicity – Repeated exposure, Category 2
 Aspiration hazard, Category 1
 Hazardous to the aquatic environment – Acute Hazard, Category 1
 Hazardous to the aquatic environment – Chronic Hazard, Category 1

2.2. Label elements

GHS BR labelling

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Danger

Hazard statements (GHS BR)

: H227 - Combustible liquid
 H304 - May be fatal if swallowed and enters airways.
 H315 - Causes skin irritation.
 H350 - May cause cancer.
 H373 - May cause damage to organs (nervous system, liver) through prolonged or repeated exposure.
 H410 - Very toxic to aquatic life with long lasting effects.

: P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 - Do not breathe vapours, spray, mist.
 P264 - Wash hands thoroughly after handling.
 P273 - Avoid release to the environment.
 P280 - Wear eye protection, protective gloves
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P314 - Get medical advice/attention if you feel unwell.
 P331 - Do NOT induce vomiting.

Precautionary statements (GHS BR)

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P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish.
P391 - Collect spillage.
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, national regulation.

2.3. Other hazards not contributing to the classification

Handling this product may result in electrostatic accumulation. Use proper grounding procedures

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : UVCB
Name : Solvent naphtha, petroleum, heavy aromatic
CAS-No. : 64742-94-5
EC-No. : 265-198-5;926-273-4
EC Index-No. : 649-424-00-3
Formula : Unspecified

Name	Product identifier	%
Solvent naphtha, petroleum, heavy aromatic	CAS-No.: 64742-94-5	100
Diisopropylbenzenes	CAS-No.: 25321-09-9	80 - 95
cumene	CAS-No.: 98-82-8	5 – 10

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact : Wash skin with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects : May cause cancer.
Symptoms/effects after inhalation : Overexposure to vapours may result in cough.
Symptoms/effects after skin contact : May cause skin irritation. Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/effects after ingestion : Abdominal pain, nausea. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. May be fatal if swallowed and enters airways. Risk of lung oedema.
Chronic symptoms : May cause damage to organs through prolonged or repeated exposure.

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

Note to physician : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
Explosion hazard : No direct explosion hazard.

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Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Protective equipment : Complete protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Do not breathe vapours, spray, mist. Avoid contact with skin.

6.1.2. 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".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leaks if it can be done without personal risk. Control the vapours with a fine water spray. Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust, fumes, gas. Avoid contact with skin. Wear personal protective equipment. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Wash hands before breaks and after work. 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. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container tightly closed. Keep away from ignition sources. Store in a well-ventilated place. Keep cool. Store locked up.

Incompatible materials : Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

cumene (98-82-8)	
Brazil - Occupational Exposure Limits	
Local name	Cumeno (Isopropil benzeno)

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According to ABNT NBR 14725-4

cumene (98-82-8)	
OEL TWA	190 mg/m ³
OEL TWA [ppm]	39 ppm
Remark (NR-15)	Absorção também p/pele
Regulatory reference	Norma Regulamentadora Nº 15 - Atividades e Operações Insalubres
USA - ACGIH - Occupational Exposure Limits	
Local name	Cumene
ACGIH OEL TWA [ppm]	5 ppm
Remark (ACGIH)	TLV® Basis: URT adenoma; neurological eff. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2023

8.2. Exposure controls

Appropriate engineering controls : Avoid the formation of mists in the atmosphere. Either local exhaust or general room ventilation is usually required.

Environmental exposure controls : Avoid release to the environment.

8.3. Personal protective equipment

Hand protection:

Protective gloves made of rubber or PVC. It is recommended that the glove supplier be consulted to ensure the protective gloves are resistant to chemicals in this product

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear liquid.
Colour	: Colourless
Odour	: Aromatic
Odour threshold	: Not available
pH	: Not available
pH solution	: Not applicable
Melting point	: < 20 °C
Freezing point	: Not available
Boiling point	: 180 – 230 °C Distillation range
Flash point	: 61 °C (Closed cup)
Relative evaporation rate (butylacetate=1)	: 0.3
Flammability	: Combustible
Explosive limits	: Not available
Vapour pressure	: 0.77 kPa Not available
Relative vapour density at 20°C	: Not available
Relative density	: Not available
Solubility	: Soluble in: Benzene. Water: Insoluble

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Partition coefficient n-octanol/water (Log Pow)	: 4.88
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: 1.495 – 1.695 mm ² /s (@20/4°C)
Viscosity, dynamic	: 1.269 – 1.469 mPa·s (@20/4°C)

9.2. Other information

Additional information	: Specific Gravity: 0.85 - 0.887 g/cm ³ @20°C, Water = 1
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SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions.
Conditions to avoid	: Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Hazardous decomposition products	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
Incompatible materials	: Strong oxidizers.
Possibility of hazardous reactions	: Hazardous polymerization will not occur.
Reactivity	: No dangerous reactions known under normal conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 590 mg/m ³ (Exposure time: 4 h)

Diisopropylbenzenes (25321-09-9)	
LD50 oral rat	3900 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 Inhalation - Rat	> 2.1 mg/l (Exposure time: 6 h)

cumene (98-82-8)	
LD50 oral rat	1400 mg/kg
LD50 dermal rabbit	12300 µl/kg
LC50 Inhalation - Rat [ppm]	> 3577 ppm (Exposure time: 6 h)
ATE BR (oral)	2500 mg/kg bodyweight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not available
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: May cause cancer.

cumene (98-82-8)	
Carcinogenicity	May cause cancer.

Reproductive toxicity	: Not available
STOT-single exposure	: Not available

cumene (98-82-8)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure	: May cause damage to organs (nervous system, liver) through prolonged or repeated exposure.
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Diisopropylbenzenes (25321-09-9)	
STOT-repeated exposure	May cause damage to organs (nervous system, liver) through prolonged or repeated exposure..

Aspiration hazard : May be fatal if swallowed and enters airways.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
Viscosity, kinematic	1.495 – 1.695 mm ² /s (@20/4°C)

11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause cancer.
Symptoms/effects after inhalation : Overexposure to vapours may result in cough.
Symptoms/effects after skin contact : May cause skin irritation. Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/effects after ingestion : Abdominal pain, nausea. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. May be fatal if swallowed and enters airways. Risk of lung oedema.
Chronic symptoms : May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LC50 - Fish [1]	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

cumene (98-82-8)	
LC50 - Fish [1]	6.04 – 6.61 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	4.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [2]	7.9 – 14.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
Partition coefficient n-octanol/water (Log Pow)	4.88

cumene (98-82-8)	
BCF - Fish [1]	35.5
Partition coefficient n-octanol/water (Log Pow)	3.55 (at 23 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Hazardous to the ozone layer : Not available
Effect on the ozone layer : No additional information available.

SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulation..
Ecology - waste materials : Avoid release to the environment.

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SECTION 14: Transport information

14.1 National and international Regulations

Road and Rail Transport - ANTT

UN Number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, petroleum, heavy aromatic)
Transport hazard class(es)	9
Packing group	III
Risk Identification Number	90
Environmental hazards	Very toxic to aquatic life with long lasting effects.

Maritime Transport - IMDG

UN Number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, petroleum, heavy aromatic)
Transport hazard class(es)	9
Packing group	III
Environmental hazards	Very toxic to aquatic life with long lasting effects
Marine pollutant	Yes
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	
Product name	Consult IMO guidelines before transporting in bulk

Air Transport - IATA

UN Number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent naphtha, petroleum, heavy aromatic)
Transport hazard class(es)	9
Packing group	III
Environmental hazards	Very toxic to aquatic life with long lasting effects

14.2 Other information

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.

SECTION 15: Regulatory information

15.1. National regulations

Regulatory reference	: Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory)
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SECTION 16: Other information

Braskem - SDS_Brazil (modified 230209)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is up to the user of the product company providing this SDS to and promote the training of its employees about possible risks come upon of the product. The information contained herein is not absolute, but only general information on the use of the chemical and indication of safety and security measures.