Braskem Pluract 9

Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 13 May 2021 Revision date: 23 October 2024 Supersedes: 2 June 2023 Version: 3.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form	:	Substance
Substance type	:	UVCB
Trade name	:	Braskem Pluract 9
Chemical name	:	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified
CAS-No.	:	64742-95-6
Formula	:	Unspecified
Product code	:	P110 / P110C / P110Q / P110R / P110S / P815

1.2. Other means of identification

EC Index-No.	:	649-356-00-4
EC-No.	:	265-199-0;918-668-5

1.3. Recommended use of the chemical and restrictions on use

Recommended use	:	Industrial use,Professional use,Manufacture of substances,Intermediate,Formulation of preparations,Coatings and paints, thinners, paint removers,Fuels,Manufacture of rubber products,Use in Agrochemicals
Restrictions on use	:	No additional information available

1.4. Supplier's details

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

1.5. Emergency phone number

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

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725: 2023)

Flammable liquids, Category 3
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2
Carcinogenicity, Category 1B
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Aspiration hazard, Category 1
Hazardous to the aquatic environment - Acute Hazard, Category 2
Hazardous to the aquatic environment - Chronic Hazard, Category 2

2.2. GHS Label elements, including precautionary statements

GHS BR labelling

Hazard pictograms (GHS BR) :

Signal word (GHS BR) : Danger

Hazard statements (GHS BR) :
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H350 - May cause cancer.
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS BR) : 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.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P261 - Avoid breathing vapours, mist, fumes.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical attention.
P312 - Call a doctor, a POISON CENTER if you feel unwell.
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical attention.
P337+P313 - If eye irritation persists: Get medical attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use carbon dioxide (CO_2), extinguishing powder, foam to extinguish.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

Vapours may travel long distances along ground before igniting/flashing back to vapour source

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : UVCB
Name : Solvent naphtha, petroleum, light aromatic
CAS-No. : 64742-95-6
EC-No. : 265-199-0;918-668-5
EC Index-No. : 649-356-00-4
Formula : Unspecified

Name	GHS Product identifier	%
Benzene, 1,2,4-trimethyl-	CAS-No.: 95-63-6	2 – 35
propylbenzene	CAS-No.: 103-65-1	3 – 25
p-Ethyltoluene	CAS-No.: 622-96-8	0 – 20
1,3,5-Trimethylbenzene	CAS-No.: 108-67-8	2 – 12
o-Ethyltoluene	CAS-No.: 611-14-3	5 – 10
Xylene	CAS-No.: 1330-20-7	0 – 10
cumene	CAS-No.: 98-82-8	1 – 8
1,2,3-Trimethylbenzene	CAS-No.: 526-73-8	1 – 7

Name	GHS Product identifier	%
Indan	CAS-No.: 496-11-7	0 – 3
Benzene, 1,3-diethyl-	CAS-No.: 141-93-5	0 – 3
n-Butylbenzene	CAS-No.: 104-51-8	0 – 0.3
Isobutylbenzene	CAS-No.: 538-93-2	0 – 0.3

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove victim to fresh air. Do not apply mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration. Seek medical advice (show the label where possible).

First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. Rinse immediately with plenty of water for 15 minutes. Obtain medical attention if irritation persists. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops.

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. Never give anything by mouth to an unconscious person. Seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects : May cause cancer.

Symptoms/effects after inhalation : May cause irritation to the respiratory tract and to other mucous membranes.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting. Aspiration of this material may cause chemical pneumonia. May be fatal if swallowed and enters airways.

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

Note to physician : : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Carbon dioxide (CO_2), dry chemical powder, foam. Water fog.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour. Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard : Prolonged exposure to fire may cause containers to rupture/explode.

Hazardous decomposition products in case of fire : Thermal decomposition can lead to the release of irritating gases and vapours.

5.3. Special protective actions for fire-fighters

Firefighting instructions : Cool closed containers exposed to fire with water spray. Exercise caution when fighting any chemical fire.

Protective equipment for firefighters : Wear recommended personal protective equipment. Extra personal protection: complete protective clothing including self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Keep away from sources of ignition. No open flames. No smoking. Avoid contact with spilled material. Take precautionary measures against static discharge.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : In case of leakage, eliminate all ignition sources. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing. In case of fire: Use self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Eliminate every possible source of ignition. Evacuate and limit access.

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and materials for containment and cleaning up

For containment : Use non-sparking tools. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Take precautionary measures against static discharge. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Collect all waste in suitable and labelled containers and dispose according to local legislation.

Other information : Dispose of in a safe manner in accordance with local/national regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing;Avoid breathing vapours, mist, fume. Do not taste or swallow. Wear recommended personal protective equipment. Handle in accordance with good industrial hygiene and safety procedures.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep away from open flames, hot surfaces and sources of ignition. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions : Store in dry, cool, well-ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed. 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)
OEL TWA	190 mg/m³
	39 ppm
Remark (NR-15)	Absorção também p/pele
Regulatory reference	Norma Regulamentadora Nº 15 - Atividades e Operações Insalubres

cumene (98-82-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Cumene
ACGIH OEL TWA	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 2024

Xylene (1330-20-7)	
Brazil - Occupational Exposure Limits	
Local name	Xileno (xilol)
OEL TWA	340 mg/m³
	78 ppm
Remark (NR-15)	Absorção também p/pele
Regulatory reference	Norma Regulamentadora Nº 15 - Atividades e Operações Insalubres
Brazil - Biological limit values	
Local name	Xilenos
BEI	1.5 g/g creatinine Parâmetro: Ácido metilhipúrico - Meio: Urina - Momento de amostragem: Final de jornada de trabalho.
Remark	Interpretação: IBE/EE - Indicadores Biológicos de Exposição Excessiva.
Regulatory reference	NR 7 - PCMSO
USA - ACGIH - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH OEL TWA	20 ppm
ACGIH OEL STEL	150 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; hematologic eff; ototoxycity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Xylenes (technical or commercial grade)
BEI	0.3 g/g creatinine Parameter: Methylhippuric acids (The determinants refer to the total of all isomers of methylhippuric acids) - Medium: urine - Sampling time: End of shift
Remark	Commercial or technical grade xylenes consist of mixtures of isomers and significant amounts of ethyl benzene as indicated under "Properties." Because ethyl benzene is known to reduce the metabolism of xylenes to methylhippuric acids, the BEI applies to technical or commercial grades of xylenes only. The determinants refer to the total of all isomers of methylhippuric acids
Regulatory reference	ACGIH 2024

Benzene, 1,2,4-trimethyl- (95-63-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	1,2,4-Trimethyl benzene
ACGIH OEL TWA	10 ppm

Benzene, 1,2,4-trimethyl- (95-63-6)	
Remark (ACGIH)	TLV® Basis: CNS impair; hematologic eff. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024

1,3,5-Trimethylbenzene (108-67-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	1,3,5-Trimethyl benzene
ACGIH OEL TWA	10 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; hematologic eff
Regulatory reference	ACGIH 2024

1,2,3-Trimethylbenzene (526-73-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	1,2,3-Trimethyl benzene
ACGIH OEL TWA	123 mg/m³
	25 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; hematologic eff
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. All equipment used when handling the product must be grounded. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures

Hand protection:
Impermeable protective nitrile gloves. Polyvinylchloride (PVC). Polyvinylalcohol (PVA). Consult glove manufacturer´s product information on material suitability and material thickness. ISO 374-1

Eye protection:
Chemical goggles or safety glasses. ISO 16321-1

Skin and body protection:
Use chemically protective clothing. Long sleeved protective clothing

Respiratory protection:
Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid
Appearance : Clear.
Colour : Colourless,Yellow
Odour : Hydrocarbon-like

Odour threshold	:	Not available
pH	:	Not applicable
Melting point	:	-48.4 °C
Freezing point	:	Not available
Boiling point	:	156 – 175 °C
Flash point	:	40 °C (Closed cup)
Relative evaporation rate (butylacetate=1)	:	Not available
Relative evaporation rate (ether=1)	:	0.23
Flammability	:	Not available
Explosive limits	:	0.7 – 6.6 vol %
Vapour pressure	:	1.7 kPa
Relative vapour density at 20°C	:	4.14 – 4.15 (20°C)
Relative density	:	0.86 – 0.88 g/cm³
Density	:	0.86 – 0.88 g/cm³ 20 °C (water =1)
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	3.75
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Auto-ignition temperature	:	491.5 °C
Decomposition temperature	:	Not available
Viscosity, kinematic	:	0.8 – 0.99 mm²/s (20 °C)
Viscosity, dynamic	:	0.68 – 0.885 mPa·s (20 °C)
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle specific surface area	:	Not applicable

9.2. Data relevant with regard to physical hazard classes

No additional information available

9.3. Further safety characteristics

No additional information available

SECTION 10: Stability and reactivity

Chemical stability	:	Stable under normal conditions.
Conditions to avoid	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Incompatible materials.
Hazardous decomposition products	:	No hazardous decomposition products known at room temperature. On burning: release of (highly) toxic gases/vapours. Hydrocarbon substances with low molecular weight and their oxidation products.
Incompatible materials	:	Strong oxidizing agents.
Possibility of hazardous reactions	:	Flammable or explosive vapour/air mixtures may be formed.
Reactivity	:	Flammable liquid and vapour. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
Handling temperature	:	No additional information available

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, light aromatic (64742-95-6)	
LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat [ppm]	3400 ppm/4h

p-Ethyltoluene (622-96-8)	
LD50 oral rat	4850 mg/kg (Source: EPA_HPV)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)

p-Ethyltoluene (622-96-8)	
LC50 Inhalation - Rat [ppm]	> 3900 ppm (Exposure time: 6 h Source: EPA_HPV)
ATE BR (oral)	4850 mg/kg bodyweight

propylbenzene (103-65-1)	
LD50 oral rat	6040 mg/kg
LD50 dermal rat	10600 mg/kg
LC50 Inhalation - Rat	422 g/m³ (Exposure time: 2 h)
ATE BR (oral)	6040 mg/kg bodyweight
ATE BR (dermal)	10600 mg/kg bodyweight
ATE BR (vapours)	422 mg/l/4h
ATE BR (dust,mist)	422 mg/l/4h

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)	1400 mg/kg bodyweight
ATE BR (dermal)	12300 mg/kg bodyweight

Xylene (1330-20-7)	
LD50 oral rat	3523 mg/kg Source: ECHA
LD50 dermal rabbit	> 4350 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	29.08 mg/l/4h
LC50 Inhalation - Rat [ppm]	5922 ppm
LC50 Inhalation - Rat (Vapours)	27.57 mg/l/4h
ATE BR (oral)	3523 mg/kg bodyweight
ATE BR (dermal)	1100 mg/kg bodyweight
ATE BR (gases)	5922 ppmv/4h
ATE BR (vapours)	27.57 mg/l/4h
ATE BR (dust,mist)	1.5 mg/l/4h

n-Butylbenzene (104-51-8)	
LD50 oral rat	3503 mg/kg
LD50 dermal rat	> 2000 mg/kg

Isobutylbenzene (538-93-2)	
LD50 dermal rat	> 2000 mg/kg (Source: IUCLID)

Benzene, 1,2,4-trimethyl- (95-63-6)	
LD50 oral rat	3280 mg/kg (Source: NZ_CCID)
LD50 dermal rat	> 3440 mg/kg (Source: ECHA)
LC50 Inhalation - Rat	18 g/m³ (Exposure time: 4 h Source: NLM_CIP)
ATE BR (oral)	3280 mg/kg bodyweight
ATE BR (vapours)	18 mg/l/4h

Benzene, 1,2,4-trimethyl- (95-63-6)	
ATE BR (dust,mist)	1.5 mg/l/4h

1,3,5-Trimethylbenzene (108-67-8)	
LD50 oral rat	6000 mg/kg (Source: ECHA)
LD50 dermal rat	> 3440 mg/kg (Source: ECHA)
LC50 Inhalation - Rat	24 g/m³ (Exposure time: 4 h Source: NLM_CIP)
ATE BR (vapours)	24 mg/l/4h
ATE BR (dust,mist)	24 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: Not applicable

Serious eye damage/irritation : Causes serious eye irritation.
pH: Not applicable

Respiratory or skin sensitisation : Not available

Germ cell mutagenicity : Not available

Carcinogenicity : May cause cancer.

cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Xylene (1330-20-7)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not available

STOT-single exposure : May cause respiratory irritation.

propylbenzene (103-65-1)	
STOT-single exposure	May cause respiratory irritation.

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

Benzene, 1,3-diethyl- (141-93-5)	
STOT-single exposure	May cause respiratory irritation.

Benzene, 1,2,4-trimethyl- (95-63-6)	
STOT-single exposure	May cause respiratory irritation.

1,3,5-Trimethylbenzene (108-67-8)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not available

Benzene, 1,2,4-trimethyl- (95-63-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	1.8 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)

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

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

Solvent naphtha, petroleum, light aromatic (64742-95-6)	
Hydrocarbon	Yes
Viscosity, kinematic	0.8 – 0.99 mm²/s (20 °C)

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

Symptoms/effects : May cause cancer.
Symptoms/effects after inhalation : May cause irritation to the respiratory tract and to other mucous membranes.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting. Aspiration of this material may cause chemical pneumonia. May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short–term (acute) : Toxic to aquatic life.
Hazardous to the aquatic environment, long–term (chronic) : Toxic to aquatic life with long lasting effects.
Other information : Avoid release to the environment.

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])

Xylene (1330-20-7)	
NOEC (acute)	0.44 mg/l 72 hours

Benzene, 1,3-diethyl- (141-93-5)	
LC50 - Fish [1]	4.05 – 4.25 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)

Benzene, 1,2,4-trimethyl- (95-63-6)	
LC50 - Fish [1]	7.19 – 8.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	2.356 mg/l Test organisms (species): other:Green algae

1,3,5-Trimethylbenzene (108-67-8)	
LC50 - Fish [1]	3.48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 - Crustacea [1]	6 mg/l Esposure time: 48h - Species: Daphnia magna- (Source: ECHA)
ErC50 algae	53 mg/l Esposure time: 48h - Species:Desmodesmus subspicatus - (Source: ECHA)
NOEC chronic crustacea	0.4 mg/l Esposure time: 21d - Species: Daphnia magna- (Source: ECHA)

12.2. Persistence and degradability

Solvent naphtha, petroleum, light aromatic (64742-95-6)	
Persistence and degradability	Not determined.

1,3,5-Trimethylbenzene (108-67-8)	
Persistence and degradability	Not rapidly degradable
Biodegradation	61 % 28d Not persistent, but failing 10-day window (source: ECHA)

12.3. Bioaccumulative potential

Solvent naphtha, petroleum, light aromatic (64742-95-6)	
Partition coefficient n-octanol/water (Log Pow)	3.75
cumene (98-82-8)	
BCF - Fish [1]	35.5
Partition coefficient n-octanol/water (Log Pow)	3.55 (at 23 °C)
n-Butylbenzene (104-51-8)	
Partition coefficient n-octanol/water (Log Pow)	4.6
Isobutylbenzene (538-93-2)	
BCF - Fish [1]	(1000 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 23 °C (at pH 6)
Benzene, 1,2,4-trimethyl- (95-63-6)	
Partition coefficient n-octanol/water (Log Pow)	3.63
1,3,5-Trimethylbenzene (108-67-8)	
Bioconcentration factor (BCF REACH)	220.1 (Source: ECHA)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Hazardous to the ozone layer : Not available
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations : Dispose as hazardous waste. Dispose of in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

ANTT	IMDG	IATA
UN number		
1268	1268	1268
UN Proper Shipping Name		
DESTILADOS DE PETRÓLEO, N.E. (Solvente de nafta de petróleo, aromático leve)	PETROLEUM DISTILLATES, N.O.S. (Solvent naphtha, petroleum, light aromatic)	Petroleum distillates, n.o.s. (Solvent naphtha, petroleum, light aromatic)
Primary risk class/subclass		
3	3	3
Subsidiary risk class/subclass		
Not applicable	Not applicable	Not applicable
Danger labels		
3	3; Marine pollutant	3; Marine pollutant

		
Risk Number		
30	Not applicable	Not applicable
Packing group		
III	III	III
Environmental hazards		
Yes	Yes Marine pollutant: Yes	Yes
Transport in bulk according to MARPOL 73/78 and IBC Code		
Not applicable	Produc name: Not listed	Not applicable

14.2 Other informations

This information does not intend to convey all specific regulatory or operational requirements/information with regards to the product, therefore it cannot be considered exhaustive. Consult ANTT, IMO and ICAO instructions before transporting the product. The carrier is responsible for following all applicable laws, regulations and rules related to the product transportation

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)
Listed on Thailand Existing Chemicals Inventory (DIW)

SECTION 16: Other information

Other information : None.

Safety Data Sheet (SDS), Brazil - Braskem

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.