

According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Product: C7C8 Aromatic

Revision date: 15/03/2017 Version: 4.2

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

Product identifier

Product form : Mixture Product name : C7C8 Aromatic

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Formulation of gasoline

Details of the supplier of the safety data sheet 1.3.

US Distributer: Braskem S.A.

5100 Westheimer Rd - Suite 495

Houston, 77056 - USA

Manufacturer: Braskem S.A.

BR 386 - Rodovia Tabaí/Canoas - km 419

Cep. 95853-000 - Triunfo/RS

Contact Email productsafety@braskem.com

1-800-424-9300 Emergency Telephone Number (CHEMTREC) :

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Muta. 1B H340 Carc. 1A H350 Repr. 2 H361 STOT SE 3 H336 STOT RE 1 H372

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)





GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness H340 - May cause genetic defects H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) 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, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P260 - Do not breathe mist, spray, vapours

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash hands thoroughly after handling



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P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, protective clothing, protective gloves

P301+P312 - If swallowed: Call a poison center/doctor/... if you feel unwell

P302+P352 - If on skin: Wash with plenty of water/...

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention

P312 - Call a poison center/doctor/... if you feel unwell

P314 - Get medical advice/attention if you feel unwell

P321 - Specific treatment (see First aid measures on this label)

P330 - Rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO2), water spray, sand, earth to extinguish

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/container to comply with applicable local, national and international regulation.

Other hazards

other hazards which do not result in classification

: Explosive vapour/air mixtures may be formed.

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Toluene	(CAS No) 108-88-3	55	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Aromatic C8	Not applicable	35	No data available
Non aromatic C7-C8	Not applicable	4	No data available
Aromatic C9	Not applicable	3	No data available
Non aromatic C9	Not applicable	2	No data available
Benzene	(CAS No) 71-43-2	1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304

Synonym: Hydrocarbons liquid NOS (3295); alkylbnzene Mixtures (containing at least 50% of toluene)

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

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First-aid measures after eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

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

Symptoms/injuries

: May cause genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May have damaging effect on respiratory

system, central nervous system and liver.

Symptoms/injuries after inhalation Symptoms/injuries after skin contact : May cause cancer by inhalation.: Causes skin irritation.

Symptoms/injuries after eye contact

: Causes serious eye irritation.

Symptoms/injuries after ingestion

: May be fatal if swallowed and enters airways.

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

Avoid any direct contact with the product. Symptomatic treatment should include, above all, measured of support as correction of hydro electrolytic and metabolic disturbances and respiratory failure. . Do not rub the skin and eyes after direct contact with the product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

: Do not use a heavy water stream.

Unsuitable extinguishing media : Do not use a heavy

5.2. Special hazards arising from the substance or mixture

Fire hazard

 Highly flammable liquid and vapour. Thermal decomposition can lead to the escape of irritating gases and vapours. ketone. aldehydes. Carbon monoxide. Carbon dioxide. low molecular weight

hydrocarbons.

Explosion hazard

: May form flammable/explosive vapour-air mixture.

Reactivity : Stable under normal conditions of use.

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 environment.

Protective equipment for firefighters

: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Protective equipment

: For further information refer to section 8 : Exposure-controls/personal protection.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

Equip cleanup crew with proper protection. For further information refer to section 8: Exposure-

controls/personal protection.

Emergency procedures : Ventilate area. Avoid inhalation of vapours.

6.2. Environmental precautions

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 and collect as any solid. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Wash contaminated clothing before reuse.

2.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.

Storage conditions

Storage area

: Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof place. Keep container tightly closed.

: Strong bases. Strong acids.

Incompatible products

Keep away from heat and direct sunlight.

Special rules on packaging

: Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks,

heat, or other potential ignition sources. Maintain air gap between stacks/pallets.

Packaging materials : Glass. Carbon steel. Stainless steel.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Benzene (71-43-2)		
USA ACGIH	ACGIH TWA (ppm)	0.5 ppm
USA ACGIH	ACGIH STEL (ppm)	2.5 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm (see 29 CFR 1910.1028)
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm
DNEL	DNEL	234 mg/l
PNEC	PNEC	1.9 mg/l

Toluene (108-88-3)		
USA ACGIH ACGIH TWA (ppm) 20 ppm		20 ppm
USA OSHA OSHA PEL (TWA) (ppm) 200 ppm		200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm

8.2. Exposure controls

Appropriate engineering controls

: Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapour. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

 Avoid all unnecessary exposure. Gloves. Protective clothing. Safety glasses. Use breathing mask and filter suitable for organic gases and vapours.









Hand protection : Wear protective gloves. PVA (Polyvinyl alcohol). Polypropylene. Protective gloves made of PVC.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear respiratory protection.



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Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless odour : characteristic : No data available Odour threshold рΗ : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available

Boiling point : 110 - 185 °C (230 - 365 °F)

Flash point : < 20 °C (68 °F) : 325 °C (617 °F) Critical temperature Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : < 20 kPa Critical pressure : 38.44 bar Relative vapour density at 20 °C : No data available

Relative density : 0.86 - 0.87 g/cm³

Solubility : Soluble in chloroform. Soluble in benzene. Diethyl ether.

Water: Insoluble Ethanol: Soluble

Log Pow : No data available

Log Kow : Benzene: 1,18-1,9Toluene: 2,11-2,80

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Not established. Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong oxidizing agents. Halogens. nitric acid. Nitrogen oxides. Permanganates. chromic acid. Sulfuric acid. Silver perchlorate. uranium hexafluoride.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases. ketone. Aldehydes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects



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Acute toxicity	:	Harmful if swallowed.
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ATE US (oral)	500.00000000 mg/kg bodyweight
Benzene (71-43-2)	
LD50 oral rat	930 mg/kg
LD50 dermal rabbit	> 8260 mg/kg
LC50 inhalation rat (mg/l)	44.5 mg/l/4h
LC50 inhalation rat (ppm)	13050 - 14380 ppm/4h
ATE US (oral)	1800.00000000 mg/kg

Toluene (108-88-3)	
LD50 oral rat	636 mg/kg
LD50 dermal rabbit	8390 mg/kg
LC50 inhalation rat (mg/l)	12.5 mg/l/4h
ATE US (oral)	636.00000000 mg/kg bodyweight
ATE US (dermal)	8390.00000000 mg/kg bodyweight
ATE US (dust,mist)	12.50000000 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

pH: Not applicable

Serious eye damage/irritation : Not classified

pH: Not applicable

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Benzene (71-43-2)	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens

Toluene (108-88-3)		
	IARC group	3 - Not classifiable

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

 $\label{thm:continuous} \mbox{Specific target organ toxicity (single exposure)} \qquad : \mbox{ May cause drowsiness or dizziness.}$

Specific target organ toxicity (repeated

exposure)

: Causes damage to organs through prolonged or repeated exposure. Causes damage to organs through prolonged or repeated exposure

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

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

Symptoms/injuries after inhalation : May cause cancer by inhalation. Symptoms/injuries after skin contact : Causes skin irritation.

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

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Benzene (71-43-2)	Benzene (71-43-2)		
LC50 fishes 1 10.7 - 14.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-thi			
EC50 Daphnia 1	8.76 - 15.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
LC50 fish 2 5.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])			
EC50 Daphnia 2 10 mg/l (Exposure time: 48 h - Species: Daphnia magna)			
Toluene (108-88-3)			
LC50 fishes 1 15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])			
EC50 Daphnia 1 5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])			



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Toluene (108-88-3)	
LC50 fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2 11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

12.2. Persistence and degradability

C7C8 Aromatic	
Persistence and degradability	Not established.
Benzene (71-43-2)	
Persistence and degradability Readily biodegradable. not persistent.	

12.3. Bioaccumulative potential

C7C8 Aromatic		
Bioaccumulative potential	Not established.	
Benzene (71-43-2)		
BCF fish 1	3.5 - 4.4	
Bioconcentration factor (BCF REACH)	> 2000	
Log Pow	1.83	
Bioaccumulative potential	not bioaccumulable.	
Toluene (108-88-3)		
Log Pow	2.65	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point.

Sewage disposal recommendations : Air stripping is useful in removing volatile organic compounds from wastewater and contaminated

aquifers.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

Classification for LAND transport: DOT

UN Number : UN3295

Proper Shipping Name : Hydrocarbons, liquid, n.o.s. (Toluene, Benzene)

Class / Division : 3
Packing Group : II

Reportable quantity : Not applicable

Classification for SEA transport: IMO - IMDG

UN Number : UN3295

Proper Shipping Name : HYDROCARBONS, LIQUID, N.O.S. (Toluene, Benzene)

Class / Division : 3



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Packing group : II

Marine pollutant : Product not considered marine pollutant based on available data

Transport in bulk according to Annex I or II of MARPOL 73/78 and IBC or IGC Code:

Product name : ALKYLBENZENE MIXTURES (CONTAINING AT LEAST 50% OF TOLUENE)

Classification for AIR transport: IATA - ICAO

UN Number : UN3295

Proper Shipping Name : Hydrocarbons, liquid, n.o.s. (Toluene, Benzene)

 $\begin{array}{lll} \text{Class / Division} & : & 3 \\ \text{Packing group} & : & II \end{array}$

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product, therefore it cannot be considered exhaustive. See guidelines of US DOT, IMDG and IATA regulations before transporting the product. The transportation organization is reponsible for compliance with laws, regulations and rules for the transport of the material.

SECTION 15: Regulatory information

15.1. US Federal regulations

C7C8 Aromatic					
RQ (Reportable quantity, section 304 of EPA's List of Lists) :		1800 lb			
Benzene (71-43-2)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					
SARA Section 313 - Emission Reporting	0.1 %				
Toluene (108-88-3)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313					
RQ (Reportable quantity, section 304 of EPA's List of Lists):	1000 lb				

15.2. International regulations

SARA Section 313 - Emission Reporting

CANADA

Benzene (71-43-2)			
Listed on the Canadian DSL (Domest	ic Sustances List)		
WHMIS Classification	HMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
Toluene (108-88-3)			
Listed on the Canadian DSL (Domes	ic Sustances List)		
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects		

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

Toluene (108-88-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1.0 %

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations



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Toluene (108-88-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

Benzene (71-43-2)

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes		Yes	
Toluene (108-88-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)

Yes

SECTION 16: Other information

Other information : None.

Yes

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Asp. Tox. 1	Aspiration hazard, Category 1		
Carc. 1A	Carcinogenicity, Category 1A		
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A		
Flam. Liq. 2	flammable liquids Category 2		
Muta. 1B	flammable liquids Category 1 flammable liquids Category 3		
Repr. 2	Reproductive toxicity, Category 2		
Skin Irrit. 2	skin corrosion/irritation Category 2		
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1		
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H225	Highly flammable liquid and vapour		
H302	Harmful if swallowed		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H336	May cause drowsiness or dizziness		
H340	May cause genetic defects		
H350	May cause cancer		
H361	Suspected of damaging fertility or the unborn child		
H372	Causes damage to organs through prolonged or repeated exposure		
H373 May cause damage to organs through prolonged or re exposure			

SDS US (GHS HazCom 2012)

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