

SECTION 1 Identification

1.1. Product identifier

Product form : Substance
 Trade name : Benzene
 Chemical name : Benzene
 IUPAC name : Benzene
 CAS-No. : 71-43-2
 Product code : P064
 Formula : C6H6

1.2. Other means of identification

Synonyms : Cyclohexatriene / Benzol
 Other means of identification : Benzene
 EC Index No. (Report) : 601-020-00-8
 EC-No. : 200-753-7

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Use as an intermediate
 Restrictions on use : No information available

1.4. Supplier's details

Braskem America, Inc.
 1735 Market Street
 Philadelphia, PA 19103-7583
 Tel: (800) 396 - 5251
 productsafety@braskem.com

1.5. Emergency phone number

Emergency number : CHEMTREC: +1 800 424 9300 (NORTH AMERICA)
 CHEMTREC International: +1 1-703-527-3887

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquid, Category 2	Highly flammable liquid and vapor.
Skin corrosion/irritation, Category 2	Causes skin irritation.
Serious eye damage/eye irritation, Category 2A	Causes serious eye irritation.
Germ cell mutagenicity, Category 1B	May cause genetic defects.
Carcinogenicity, Category 1A	May cause cancer.
Specific target organ toxicity — Repeated exposure, Category 1	Causes damage to organs (haematopoietic system) through prolonged or repeated exposure.
Aspiration hazard, Category 1	May be fatal if swallowed and enters airways.

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) : 

Signal word (GHS US) : Danger

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Hazard statements (GHS US)	: Highly flammable liquid and vapor May be fatal if swallowed and enters airways Causes skin irritation Causes serious eye irritation May cause genetic defects. May cause cancer. Causes damage to organs (haematopoietic system) through prolonged or repeated exposure
Precautionary statements (GHS US)	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe fume, gas, mist, spray, vapors, dust. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection, protective clothing, protective gloves. If swallowed: Immediately call a doctor, a POISON CENTER. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Get medical advice or attention if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use alcohol resistant foam, dry extinguishing powder to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, national regulation.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

Other hazards which do not result in classification : Harmful to aquatic life with long lasting effects.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

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Name	Product identifier	%	GHS US classification
Benzene (Main constituent)	CAS-No.: 71-43-2	≥ 99.9	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

3.2. Mixtures

Not applicable

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of breathing difficulties administer oxygen. Immediately get medical attention.
First-aid measures after skin contact	: Rinse immediately with plenty of water (for at least 15 minutes). Immediately get medical attention. Discard contaminated clothing.
First-aid measures after eye contact	: Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.
First-aid measures after ingestion	: Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately get medical attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: May cause cancer. May cause genetic defects. Causes damage to organs (hematopoietic system).
Symptoms/effects after inhalation	: Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
Symptoms/effects after skin contact	: Causes skin irritation. Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Repeated exposure may cause skin dryness or cracking. Redness.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.
Chronic symptoms	: Chronic inhalation may result in chronic solvent encephalopathy or "chronic painter's syndrome" a central nervous system disorder that can follow many years of heavy exposure to solvents.

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

Note to physician : : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: carbon dioxide (CO ₂), dry chemical powder, foam. Water fog.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

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5.2. Specific hazards arising from the chemical

- Fire hazard : Highly flammable liquid and vapor. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. Vapors may cause fire/explosion if source of ignition is present. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source. Will float and can be reignited on water surface. Under fire conditions closed containers may rupture or explode.
- Explosion hazard : Vapors may form explosive mixtures with air. Prolonged exposure to fire may cause containers to rupture/explode.
- Hazardous decomposition products in case of fire : On combustion forms: Formaldehyde. Carbon monoxide. Carbon dioxide. Ketones.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Do not approach fire except upwind and only with proper skin and respiratory protection (supplied air only). Cool closed containers exposed to fire with water spray.
- Protection during firefighting : 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 : Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Use special care to avoid static electric charges.
- 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 : Avoid all eye and skin contact and do not breathe vapor and mist. Evacuate unnecessary personnel. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- For emergency responders**
- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Eliminate leaks immediately. Eliminate all ignition sources if safe to do so. Ventilate affected area. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Environmental precautions : Avoid discharge to the environment. Do not flush down sewers. Do not allow to enter into surface water or drains. Do not allow run-off from fire fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6.2. Methods and materials for containment and cleaning up

- For containment : Stop leak if safe to do so. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Ventilate affected area. Use non-sparking tools.
- Methods for cleaning up : Prevent spread over a wide area (e.g. by containment or oil barriers). Take up liquid spill into dry absorbent material e.g.: dry sand/earth/vermiculite. Collect spills and put it into appropriated container. Keep the recovered product for subsequent recycling.
- Other information : Bioremediation of contaminated water bodies using granulated activated charcoal has been demonstrated to be the best method of removal from contaminated water bodies. Recovery and remediation of polluted soil and water can be accomplished through the Fenton reaction.

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

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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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Use grounded electrical/mechanical equipment. Ground/bond container and receiving equipment. Avoid producing mist or vapors by heating of opened receptacle/container. Spilled product must never be returned to the original container for recycling.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product.
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable. Handling this product may result in electrostatic accumulation. Use proper grounding procedures.

7.2. Conditions for safe storage, including incompatibilities

Technical measures	: Ground/bond container and receiving equipment. Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment. Use non-sparking tools.
Storage conditions	: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep in original containers closed. Keep stored the least quantity possible. Store at room temperature. Store in dry, cool, well-ventilated area. Store locked up.
Incompatible materials	: Oxidizing agents. Strong acid. Halogenated compounds.
Specific end uses	: See Heading 1.
Packaging materials	: stainless steel. Carbon steel. PVC.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Benzene (71-43-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Benzene
ACGIH® TLV® TWA	0.02 ppm
Remark (ACGIH®)	TLV® Basis: Myelodysplastic syndrome; acute myeloid leukemia; leukemia; hematologic eff; chromosomal dam. Notations: Skin; A1 (Confirmed Human Carcinogen); BEI
ACGIH® chemical category	Confirmed Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	Benzene
BEI	25 µg/g Kreatinin Parameter: S-Phenylmercapturic acid - Medium: urine - Sampling time: end of shift (background) 500 µg/g Kreatinin Parameter: t,t-Muconic acid - Medium: urine - Sampling time: end of shift (background)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Benzene
OSHA PEL TWA	10 ppm 1 ppm

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Benzene (71-43-2)	
OSHA PEL STEL	5 ppm (see 29 CFR 1910.1028)
OSHA PEL C	25 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	50 ppm Peak (10 minutes)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Benzene [Benzol]
Cal/OSHA PEL (OEL TWA)	1 ppm
Cal/OSHA STEL	5 ppm
Remark (Cal/OSHA)	S - Skin notation and Protecting Clothing
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - IDLH - Occupational Exposure Limits	
IDLH	500 ppm
USA - NIOSH - Occupational Exposure Limits	
Local name	Benzene
NIOSH REL TWA	0.1 ppm
NIOSH REL 10h TWA	0.1 ppm
NIOSH REL STEL	1 ppm
Remark (NIOSH)	Ca = Potential occupational carcinogens
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-2 (NIOSH Pocket Guide to Chemical Hazards (NPG))

8.2. Appropriate engineering controls

- Appropriate engineering controls : Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapor. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use explosion-proof equipment. All equipment used when handling the product must be grounded. Use only non-sparking tools.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:				
Impermeable protective gloves. Do not reuse gloves. It is recommended that the glove supplier be consulted to ensure the protective gloves are resistant to chemicals in this product				
Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves, E.g. KCL Type: 890 or equivalent	Viton	<480 Minutes.	0.7	Not known
Eye protection:				
Chemical goggles or face shield with safety glasses				

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Skin and body protection:		
Wear suitable protective clothing or Rubber apron		
Respiratory protection:		
An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Consult a national health and safety authority for further guidance		
Device	Filter type	Condition
Full face mask, with cartridge/filter	A	Concentrations exceed max allowed workplace atmospheric concentrations.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear to light yellow liquid.
Color	: Clear to light yellow
Odor	: characteristic aromatic hydrocarbons
Odor threshold	: 2,7ppm
pH	: No data available
Melting point	: 5.4 °C / 5.5 °C
Freezing point	: No data available
Boiling point	: 80.1 °C
Critical temperature	: 288.9 °C
Critical pressure	: 4894 kPa (48.3 atm)
Flash point	: -11 °C (Closed cup)
Relative evaporation rate (butyl acetate=1)	: 2.8
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 100 hPa at 20 °C
Relative vapor density at 20°C	: 2.77
Relative density	: No data available
Density	: 0.88
Molecular mass	: 78.11 g/mol
Solubility	: soluble in most organic solvents. Water: sparingly soluble
Partition coefficient n-octanol/water (Log Pow)	: 1.18 – 1.9 (also reported 2.13 – 2.15)
Auto-ignition temperature	: 498 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: 0,604 mm ² /s at 25 °C
Explosion limits	: Lower 1,4 %(V)
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source. Reacts violently with (some) halogens.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

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10.3. Possibility of hazardous reactions

None known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid static electricity discharges.

10.5. Incompatible materials

oxidizing agents. Strong acids. Halogenated compounds.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. On combustion forms: Carbon dioxide (CO₂). Carbon monoxide. Formaldehyde. ketone.

SECTION 11 Toxicological information

Likely routes of exposure : Ingestion. Inhalation. Skin and eye contact.

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)

Benzene (71-43-2)

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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LD50 dermal rabbit	> 8200 mg/kg (Source: JAPAN_GHS)
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LC50 Inhalation - Rat	44.66 mg/l/4h
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Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Benzene (71-43-2)

IARC group	1 - Carcinogenic to humans
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National Toxicity Program (NTP) Status	Known Human Carcinogens, Evidence of Carcinogenicity
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In OSHA Hazard Communication Carcinogen list	Yes
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In OSHA Specifically Regulated Carcinogen list	Yes
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Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Causes damage to organs (haematopoietic system) through prolonged or repeated exposure.

Benzene (71-43-2)

NOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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NOAEC (inhalation, rat, 90 days)	96 mg/m ³
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Aspiration hazard : May be fatal if swallowed and enters airways.

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Symptoms/effects	: May cause cancer. May cause genetic defects. Causes damage to organs (hematopoietic system).
Symptoms/effects after inhalation	: Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
Symptoms/effects after skin contact	: Causes skin irritation. Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Repeated exposure may cause skin dryness or cracking. Redness.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.
Chronic symptoms	: Chronic inhalation may result in chronic solvent encephalopathy or "chronic painter's syndrome" a central nervous system disorder that can follow many years of heavy exposure to solvents.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	: Not a OSHA HazCom 2024 hazard endpoint
Hazardous to the aquatic environment, long-term (chronic)	: Not a OSHA HazCom 2024 hazard endpoint

12.2. Persistence and degradability

Benzene (71-43-2)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Benzene (71-43-2)	
BCF - Fish [1]	3.5 – 4.4
Partition coefficient n-octanol/water (Log Pow)	1.18 – 1.9 (also reported 2.13 – 2.15)
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Benzene (71-43-2)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.12742878

12.5. Other adverse effects

Ozone	: Not a OSHA HazCom 2024 hazard endpoint
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Regional legislation (waste)	: U.S. - RCRA (Resource Conservation Recovery Act) - U Series Wastes - Acutely Toxic Wastes Other Hazardous Characteristics. U.S. - RCRA (Resource Conservation Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic. U.S. - RCRA (Resource Conservation Recovery Act) - Basis for Listing - Appendix VII. U.S. - RCRA (Resource Conservation Recovery Act) - TSD Facilities Ground Water Monitoring. U.S. - RCRA (Resource Conservation Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261. U.S. - RCRA (Resource Conservation Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards. U.S. - RCRA (Resource Conservation Recovery Act) - List for Hazardous Constituents. U.S. - RCRA (Resource Conservation Recovery Act) - Constituents for Detection Monitoring.
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Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions and in accordance to local and regional legislation.
Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point.
Additional information	: Flammable vapors may accumulate in the container. Do not re-use empty containers. Handle empty containers with care because residual vapors are flammable.
Ecological waste information	: Avoid release to the environment.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN1114	UN1114	1114	1114
14.2. Proper Shipping Name			
Benzene	BENZENE	BENZENE	Benzene
14.3. Transport hazard class(es)			
3	3	3	3
			
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

14.6. Transport in bulk

Product Name	: BENZENE AND MIXTURES HAVING 10% BENZENE OR MORE
Ship Type	: 2G
Contamination Category	: Y

14.7. Special precautions for user

DOT	
UN-No. (DOT)	: UN1114
DOT Special Provisions (49 CFR 172.102)	: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L

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DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

TDG

UN-No. (TDG) : UN1114
Explosive Limit and Limited Quantity Index : 1 L
Excepted quantities (TDG) : E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L
Emergency Response Guide (ERG) Number : 130

IMDG

Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG) : B
Stowage and handling (IMDG) : SW2
Flash point (IMDG) : -11°C c.c.
Properties and observations (IMDG) : Colorless liquid with a characteristic odor. Flashpoint: -11°C c.c. Explosive limits: 1.4% to 8%. Freezing point 5°C, flashes below its freezing point. Immiscible with water. Narcotic. Exposure to this substance may produce serious chronic effects of a toxic nature.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
ERG code (IATA) : 3H

SECTION 15 Regulatory information

15.1. Federal regulations

Benzene (71-43-2)

Subject to reporting requirements of United States SARA Section 313
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	10 lb received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule
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Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Benzene	71-43-2	Present	Active	

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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.		
Benzene	CAS-No. 71-43-2	100%

15.2. International regulations

No additional information available

15.3. State regulations

Benzene (71-43-2)	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Yes
No significant risk level (NSRL)	6.4 µg/day (oral)
Maximum allowable dose level (MADL)	24 µg/day oral
State or local regulations	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Minnesota - Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Maine - Chemicals of Concern



WARNING:

This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16 Other information

according to US HazCom 2024

Revision date : 24 November 2025
Issue date : 26 May 2015

Safety Data Sheet (SDS), USA - 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.