

Safety data sheet

according to GHS

Date of issue: 08.05.2026

Version number 1

Revision: 08.05.2026

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

Product identifier

Trade name: Benzene

CAS number:
71-43-2

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

Application of the substance / the preparation: intermediate

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Kuwait Paraxylene Production Company (KPPC)
Kuwait Petroleum Corporation Building, Gulf Road, 2nd Floor, Office 290, Kuwait
Tel: +9652388-3866
Email: PICPXContacts@equate.com

Emergency telephone number(s): +965-2325 2578 (24 hrs/day)

2 Hazards identification

Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Acute Tox. 5 H303 May be harmful if swallowed.

Acute Tox. 1 H310 Fatal in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

STOT RE 1 H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Label elements

GHS label elements

The substance is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms:



GHS02 GHS06 GHS08

Signal word: Danger

Hazard-determining components of labelling:

benzene

Hazard statements:

H225 Highly flammable liquid and vapour.

H303 May be harmful if swallowed.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H340 May cause genetic defects.

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H350 May cause cancer.

H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.
- P321 Specific treatment (see on this label).
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards**PBT:** No PBT.**vPvB:** No vPvB.

3 Composition/information on ingredients

Substances**CAS Number. Description.**

71-43-2 benzene

4 First aid measures

Description of first aid measures**General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly.

In case of unconsciousness place patient stably in the recovery position.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Contact a doctor if symptoms arise.

After eye contact:

Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. If irritation persists get medical attention.

After swallowing: Do not induce vomiting; call for medical help immediately.**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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Trade name: Benzene**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Firefighting measures**Extinguishing media****Suitable extinguishing agents:** CO₂, dry powder, foam or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet.**Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

Advice for firefighters**Protective equipment:**

Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid breathing vapours

Use personal protective equipment. Keep unprotected persons away.

Environmental precautions

Prevent seepage into sewage system, workpits and basements.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Ensure adequate ventilation.

Small spills: Absorb with absorbent materials such as: Sand, Sawdust, Vermiculite. Large spills: Dike area to contain spill. Pump into suitable and properly labeled containers.

Dispose contaminated material as waste according to section 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Precautions for safe handling**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities**Requirements to be met by storerooms and receptacles:**

Store in a dry, cool and well-ventilated area.

Keep container tightly closed.

Information about storage in one common storage facility: No further relevant information available.**Specific end use(s):** No further relevant information available.

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8 Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace: Not available

Exposure controls

Personal protective equipment

General protective and hygienic measures:

Ensure good ventilation/exhaustion at the workplace.
 Ensure that washing facilities are available at the work place.
 Minimize source of ignition, such as static build-up, heat, spark or flame.
 Take off contaminated clothing and wash it before reuse.
 Store protective clothing separately.
 Avoid contact with the eyes and skin.
 Avoid breathing vapours.
 Wash hands before breaks and at the end of work.
 Do not eat, drink, smoke or sniff while working.

Respiratory protection:

In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves.

Eye protection: Safety glasses.

Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid.
Colour: Colourless.

Odour: Aromatic.
Odour threshold: Not determined

pH-value: Not determined

Melting point/freezing point: Not determined.

Initial boiling point and boiling range: 80 °C

Flash point: -11.63 °C

Flammability Highly flammable.

Auto-ignition temperature: Not determined.

Decomposition temperature: Not determined

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

Explosion limits:

Lower: 1.3 Vol %
Upper: 8 Vol %

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Oxidising properties	Not determined.
Vapour pressure at 20 °C:	75 mmHg
Density:	Not determined
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with Water:	Slightly soluble.
Partition coefficient: n-octanol/water:	Not determined
Viscosity:	
Dynamic:	Not determined
Other information	No further relevant information available.
Particle characteristics	Not applicable

10 Stability and reactivity

Reactivity Stable under normal conditions of use, storage, and transport.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials No further relevant information available.

Hazardous decomposition products No further relevant information available.

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values:

71-43-2 benzene

Oral	LD50	4,894 mg/kg (Rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LC50/4h	9,980 mg/L (mouse)

Primary irritant effect:

Skin corrosion/irritation: Irritant to skin and mucous membranes.

Serious eye damage/irritation: Irritating effect.

Respiratory or skin sensitisation: No sensitising effects known.

Additional toxicological information: Danger through skin adsorption.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Muta. 1B, Carc. 1A

STOT-repeated exposure:

May cause damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.

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

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12 Ecological information

Toxicity**Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional environmental information:****General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Results of PBT and vPvB assessment**PBT:** No PBT.**vPvB:** No vPvB.**Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation:**

Do not allow product to reach sewage system.

Disposal must be made in accordance with official regulations.

Uncleaned packaging:**Recommendation:**

Packaging that may not be cleansed must be disposed of in the same manner as the product.

14 Transport information

UN Number

ADR, IMDG, IATA

UN1114

UN proper shipping name

ADR

1114 BENZENE solution

IMDG, IATA

BENZENE solution

Transport hazard class(es)

ADR, IMDG, IATA

**Class**

3 Flammable liquids.

Label

3

Packing group

ADR, IMDG, IATA

II

Environmental hazards

Not applicable

Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code):

33

EMS Number:

F-E,S-D

Stowage Category

B

Stowage Code

SW2 Clear of living quarters.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Transport/Additional information:

ADR

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml
D/E

Tunnel restriction code:

IMDG

Limited quantities (LQ)

1L

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

15 Regulatory information

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

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Precautionary statements:

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P321 Specific treatment (see on this label).

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

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P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment**Information about limitation of use:**

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

Chemical safety assessment A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 5: Acute toxicity – Category 5
Acute Tox. 1: Acute toxicity – Category 1
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1A: Carcinogenicity – Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1