



WUHAN BIET CO.,LTD

Instruction manual of dibenzyl ether safety technology

1. Chemicals and enterprise identification

Common name or trade name of chemical: dibenzyl ether

CAS code: 103-50-4

Telephone number: +86 27-83698488

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Company name:WUHAN BIET CO.,LTD

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2. Risk overview

[GHS classification of physical hazards was not classified](#)

Health hazard acute toxicity (orally) class 5 skin corrosion/irritation class 3 severe injury/irritation of the eyes class 2B

Environmental hazards

Acute aquatic toxicity level 1 chronic aquatic toxicity level 1

GHS tag elements

Icon or hazard sign



The signal word

Warning hazard description

Swallowing can be harmful.Causes mild skin irritation and eye irritation

Highly toxic to aquatic organisms

Long-term effects are extremely toxic to aquatic organisms

To prevent that

[against]

Avoid release into the environment.[first aid measures]

Eye contact: rinse with water carefully for a few minutes.If convenient and easy to operate, remove contact lenses.Keep flushing.

Eye contact: seek medical attention

3. Composition/composition information

Single substance/mixture single chemical name: dibenzyl ether



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4. First aid measures

Inhalation: move victim to fresh air, keep breathing and rest. Call a detoxification center/doctor if you feel unwell.

Skin contact: remove/remove all contaminated clothing immediately. Wash gently with plenty of soap and water.

Seek medical attention if skin irritation or rash develop.

Eye contact: rinse with water carefully for a few minutes. If convenient and easy to operate, remove contact lenses. Continue cleaning. If eyes irritate: seek medical attention.

Ingestion: if you feel unwell, call a detoxification center/doctor. Rinse your mouth. Signs of harm: nausea, pleasure, irritation, pain

Protection for emergency responders: rescuers need to wear personal protective equipment, such as rubber gloves and air tightness goggles.

5. Fire protection measures

Suitable extinguishing agent: dry powder, foam, water mist, not suitable for carbon dioxide extinguishing agent: bar water

Specific method: fire extinguishing from upwind and select appropriate fire extinguishing method according to the surrounding environment. Non-related personnel should be evacuated to a safe place.

In case of fire: if safe, remove removable container.

Special protective equipment for firefighters: always wear personal protective equipment when putting out a fire.

6. Emergency treatment for leakage

Personal protective measures, protective equipment, use of personal protective equipment. Stay away from spills/leaks and upwind. Ensure adequate ventilation. Emergency measures: the leakage area should be surrounded by safety belts to control the entry of non-related personnel.

Environmental protection measures: be careful not to discharge into rivers, etc. Because of the negative impact on the environment. Methods and materials for control and cleaning:

Absorb leaks with suitable absorbents (e.g. old cloth, dry sand, soil, sawdust). Once a large amount of leakage, embankment control. Fixtures or collections should be discarded immediately in accordance with applicable laws and regulations.

7. Operation, disposal and storage

To deal with

Technical measures: in a well-ventilated place. Wear appropriate protective equipment. Prevent smoke generation. Wash hands and face thoroughly.

Note: if steam or aerosols are generated, use ventilation and local exhaust. Precautions for handling: avoid contact with skin, eyes and clothing.

If the operation involves heating, such as distillation, check in advance for the presence of peroxides.

storage



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Storage condition: keep container closed.Store in a cool, dark place.Keep away from incompatible materials such as oxidants.

Packing material: according to law.

8. Contact control and personal protection

Engineering control: install closed system or local exhaust system as far as possible. Operators should not contact directly.Install both shower and eyewash.

Personal protective equipment

Respiratory protection: gas mask.Comply with local and government regulations.Hand protection: protective gloves.

Eye protection: safety goggles.Wear a mask if necessary.

Skin and body protection: protective clothing.Wear protective boots if necessary.

9. Physical and chemical properties

Shape (20 ° C) : liquid appearance: transparent

Colour: colorless - very pale yellow

Smell: special smell

PH: numerous data according to the melting point: 4 °C

Boiling point/boiling range 298 ° C flash point: 135 ° C

Explosion characteristics

Lower explosive limit: no data explosion limit: no vapor pressure: 0.1 Pa / 25 ° C vapor density: 6.84

Density: 1.04 solubility:

[water] does not dissolve in (0.04 g/L, 35 ° C) solvent [other]

Mixing: ether, alcohol, acetone, chloroform, log water partition coefficient = 3.31

10. Stability and reactivity

Chemical stability: may form explosive peroxides.

Risk response possibilities: no specific reactivity has been reported.Conditions to avoid: air

Avoid contact with substances oxidants, strong acids, halogen dangerous breakdown products: carbon monoxide, carbon dioxide

11. Toxicological information

Acute toxicity: orl-musld50 :4300mg/kg orl-rat LD50:2500mg/kg

For skin corrosion or irritation: skn-rbt 500 mg/24H MLD

Severe damage or irritation to eyes: eye-rbt 500 mg/24H MLD germ cell variability: no data available

Carcinogenicity: IARC = no data NTP = no data

Reproductive toxicity: no data available

RTECS number: DQ6125000

12. Ecological information



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Ecotoxicity:

Fish: 48h LC50:18 PPM (Oryzias latipes) 96h LC50:6.8 mg/L (Oryzias latipes)

Crustacean: 48h EC50: 0.77mg /L (Daphnia magna)

Algae: 72h EC50:1.6 mg/L (Selenastrum capricornutum) residual/degradability: 0% (by BOD), 7% (by HPLC)

Latent bioaccumulation (BCF): 171-429 (conc. 0.2 PPM), 187-345 (conc

Log water partition factor: 3.31

Soil absorption coefficient (Koc) : 1500

Henry's law 8.4×10^{-3} constant(PaM³/mol):

13. Disposal

Recycle if possible. Please consult your local management. [It is recommended to incinerate in a chemical incinerator equipped with afterburner and scrubber.](#) Dispose of waste in accordance with all national, regional and local laws and regulations.

14. Transport information

UN classification: category 9 miscellaneous UN no. 3082

Official transport name: environmental hazardous substances, liquids, not otherwise specified packaging grade: III

Marine pollutant: Y