



## Safety Data Sheet

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Benzyl alcohol

SDS No. : 0834E-4

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

Research and Development

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

---

### Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

PHYSICAL AND CHEMICAL HAZARDS

Flammable liquids: Category 4

HEALTH HAZARDS

Acute toxicity (Oral): Category 4

Acute toxicity (Dermal): Category 4

Serious eye damage/eye irritation: Category 2

Skin sensitization: Category 1A

Specific target organ toxicity – single exposure: Category 1 (central nervous system, kidneys)

Specific target organ toxicity – single exposure: Category 3 (Narcotic effects)

Specific target organ toxicity – repeated exposure: Category 1 (central nervous system)

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, short-term (acute): Category 2

(Note) GHS classification without description: Not classified/Classification not possible

Label elements



Signal word: Danger

HAZARD STATEMENT

H227 Combustible liquid

H302 Harmful if swallowed

H312 Harmful in contact with skin

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H370 Causes damage to organs (central nervous system, kidneys)

H336 May cause drowsiness or dizziness

H372 Causes damage to organs through prolonged or repeated exposure (central nervous system)



H401 Toxic to aquatic life

**PRECAUTIONARY STATEMENT****Prevention**

- P273 Avoid release to the environment.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P264 Wash contaminated parts thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P270 Do not eat, drink or smoke when using this product.

**Response**

- P370 + P378 In case of fire: Use appropriate media to extinguish.  
P314 Get medical advice/attention if you feel unwell.  
P312 Call a POISON CENTER/doctor/physician if you feel unwell.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P330 IF SWALLOWED: Rinse mouth.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

**Storage**

- P403 Store in a well-ventilated place.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal**

- P501 Dispose of contents/container in accordance with local/national regulation.

**Specific adverse human health effects**

See "11. Toxicological Information".

---

**Section 3. Composition/information on ingredients**

Mixture/Substance selection:

Substance

Ingredient name	Content (%)	CAS No.	Chemicals No, Japan	Chemical formula
Benzyl alcohol	99(min)	100-51-6	3-1011	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> OH

Note : The figures shown above are not the specifications of the product.

---

**Section 4. First-aid measures**

Descriptions of first-aid measures

General measures



Get medical advice/attention if you feel unwell.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN**

Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

**IF IN EYES**

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.

**IF SWALLOWED**

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.

---

**Section 5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

In case of fire, use spraying loaded liquid, foam (water-soluble liquid: alcohol-resistant foam), inactive gases, dry powder, dry sand to extinguish.

\*Fire Service Act Group 4 Hazardous Materials

**Unsuitable extinguishing media**

Indoor Fire Plug System or Outdoor Fire Plug System

Sprinkler System

Dry Chemical Extinguishing System—Others (except for phosphates etc., Hydrogen Carbonates etc.)

Fire Extinguisher Discharging Jet Water/Spraying Water

Fire Extinguisher Discharging Jet Loaded Liquid

Fire Extinguisher Discharging Dry Extinguishing agents—Others (except for phosphates etc., Hydrogen Carbonates etc.)

Water Bucket or Water Tank

\*Cabinet Order Concerning the Control of Hazardous Materials (Attached Table 5) Group 4 Hazardous Materials

**Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

See "10.Stability and Reactivity".

**Advice for firefighters****Specific fire-fighting measures**

Evacuate non-essential personnel to safe area.

**Special protective equipment and precautions for fire-fighters**

Wear fire resistant or flame retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.



---

**Section 6. Accidental release measures**

Personnel precautions, protective equipment and emergency procedures

- Keep unauthorized personnel away.
- Ventilate area until material pick up is complete.
- Wear proper protective equipment.

Environmental precautions

- Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for containment and cleaning up

- Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

- Collect spillage.

---

**Section 7. Handling and storage**

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

- Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

- Exhaust/ventilator should be available.

(Safety treatments)

- Avoid contact with skin.
- Avoid contact with eyes.

Safety Measures

- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands et al thoroughly after handling.
- When using do not eat, drink or smoke.

Any incompatibilities

- See "10.Stability and Reactivity".

Advice on general occupational hygiene

- Wash contaminated parts thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Take off contaminated clothing and wash it before reuse.

Storage

Conditions for safe storage

- Keep container tightly closed.
- Store locked up. (P405)
- Store in a cool, dry place. Do not store in direct sunlight.
- Storage in accordance with local/national regulation.

Container and packaging materials for safe handling

- Use closed unbreakable containers.

---

**Section 8. Exposure controls/personal protection**

## Control parameters

## Adopted value

Adopted value in ACGIH is not available.

## Exposure controls

## Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

## Individual protection measures

Recommend to use protective equipment in conformity with the standards.

Use appropriate protective equipment in accordance with local/national regulation.

## Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

## Hand protection

Wear impervious protective glove.

## Eye protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

## Skin and body protection

Wear protective clothing.

---

**Section 9. Physical and Chemical Properties**

## Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless, clear

Odor: Characteristic odor

Melting point/Freezing point: -15°C

Boiling point or initial boiling point: (Benzyl alcohol)205°C

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit:

Lower explosion limit: 1.3 vol %

Upper explosion limit: 13 vol %

Flash point: (Benzyl alcohol)(C.C.) 93°C

Auto-ignition temperature: (Benzyl alcohol)436°C

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: 4g/100 ml

Solubility in solvent data is not available.

n-Octanol/water partition coefficient: log Pow1.1

Vapor pressure: 13.2 Pa (20 °C)

Density and/or relative density: 1.04

Relative vapor density (Air=1): 3.7

Relative density of the Vapor/air - mixture at 20°C (Air = 1): 1

Particle characteristics data is not available.



## Other information

Other information is not available.

---

**Section 10. Stability and Reactivity**

## Reactivity

Not available.

## Chemical stability

Stable under normal storage/handling conditions.

## Possibility of hazardous reactions

Reacts with strong oxidants. Attacks some forms of plastic. On combustion, forms toxic gases including carbon monoxide. (ICSC 0833)

## Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

## Incompatible materials

Strong oxidizing agents

## Hazardous decomposition products

Carbon oxides

---

**Section 11. Toxicological Information**

## Information on toxicological effects

## Acute toxicity

## Acute toxicity (Oral)

## [Product]

Category 4, Harmful if swallowed

## [Data for components of the product]

[GHS Cat. Japan, base data]

rat LD50=1200mg/kg (JECFA FAS48, 2001)

## Acute toxicity (Dermal)

## [Product]

Category 4, Harmful in contact with skin

## [Data for components of the product]

[GHS Cat. Japan, base data]

rabbit LD50=2000mg/kg (SIDS, 2004)

## Acute toxicity (Inhalation)

## [Data for components of the product]

[GHS Cat. Japan, base data]

mist: rat LC50 >4.178mg/L/4hr (OECD TG403, GLP) (SIDS, 2004)

## Irritant properties

Skin corrosion/irritation data is not available.

## Serious eye damage/irritation

## [Product]

Category 2, Causes serious eye irritation

## [Data for components of the product]

[GHS Cat. Japan, base data]

rabbit (OECD TG405) moderate irritation (SIDS, 2004)

## Sensitization

## Skin sensitization



[Product]

Category 1A, May cause an allergic skin reaction

[Data for components of the product]

[GHS Cat. Japan, base data]

cat. 1A; OEL Documentations (JSOH), 2019

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Reproductive toxicity data is not available.

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Category 1, Causes damage to organs

Category 3, May cause drowsiness or dizziness

[Data for components of the product]

[cat.1]

[GHS Cat. Japan, base data]

central nervous system, kidneys (Journal of Japanese Association for Acute Medicine vol. 29, p.254, 2018)

[cat.3 (narcotic effects)]

[GHS Cat. Japan, base data]

narcotic effect (MOE Environmental Risk Assessment for Chemical Substances vol.11, 2013; SIDS, 2004)

STOT-repeated exposure

[Product]

Category 1, Causes damage to organs through prolonged or repeated exposure

[Data for components of the product]

[cat.1]

[GHS Cat. Japan, base data]

central nervous system (PATY 6th, 2012)

Aspiration hazard data is not available.

---

## Section 12. Ecological Information

### Toxicity

#### Aquatic toxicity

[Product]

Category 2, Toxic to aquatic life

[Data for components of the product]

Hazardous to the aquatic environment, short-term (acute)

[GHS Cat. Japan, base data]

Fish (*Lepomis macrochirus*) LC50=10mg/L/96hr (MOE risk assessment vol.11, 2013)

Hazardous to the aquatic environment, long-term (chronic)

[GHS Cat. Japan, base data]

Crustacea (*Daphnia magna*) NOEC=51mg/L/21days (MOE risk assessment vol.11, 2013)

#### Water solubility

4 g/100 ml (ICSC, 2000)

#### Persistence and degradability

[Data for components of the product]

Rapidly degradable (BOD\_Degradation : 94% (METI Existing Chemical Substances Safety Inspections Data, 1991))

**Bioaccumulative potential**

[Data for components of the product]

log Pow=1.1 (ICSC, 2000)

**Mobility in soil**

Mobility in soil data is not available.

**Other adverse effects**

Ozone depleting chemical data is not available.

---

**Section 13. Disposal considerations**

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

**Waste treatment methods**

Avoid release to the environment.

Dispose of contents/container as industrial waste. Accordance with local/national regulation.

---

**Section 14. Transport Information**

UN Number or ID Number : Not regulated

**IMDG Code (International Maritime Dangerous Goods Regulations)**

UN Number or ID Number : Not regulated

**IATA (Dangerous Goods Regulations)**

UN Number or ID Number : Not regulated

**Environmental hazards**

Marine pollutants (yes/no) : no

---

**Section 15. Regulatory Information**

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Applicable

**Other regulatory information**

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

---

**Section 16. Other information****References and sources for data**

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2022 Edition (Incorporating Amendment 41-22)

IATA Dangerous Goods Regulations (65th Edition) 2024

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2024 TLVs and BEIs. (ACGIH)

Supplier's data/information

**General Disclaimer**

Please provide SDS to customers for selling or transferring.

All chemicals have unknown hazard. Handle the product with care.





This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2022).