

Material Safety Data Sheet

Benzyl alcohol Product name

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

1.1. Product name Benzvl alcohol 1.2 CAS-No. 100 - 51 - 6

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

Laboratory chemicals, Synthesis of substances Identified uses

1.4. Details of the supplier of the safety data sheet

Glory Global CO.,LTD Company

Address C-208, 10, Nowon-ro 15-gil, Nowon-gu, Seoul, Korea

+82 2 6223 0862 Emergency Phone

2. Hazards identification

2.1. Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

2.2. GHS Label elements, including precautionary

Pictogram

- Acute toxicity, Oral (Category 4), H302
- Acute toxicity, Inhalation (Category 4), H332
- Eye irritation (Category 2A), H319
- For the full text of the H-Statements mentioned in this Section, see Section 16.



Signal word

H302 + H332 Harmful if swallowed or if inhaled. H319 Causes serious eye irritation.

2.3. Precautionary statement(s)

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

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

Wear eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

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.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.4. Hazards not otherwise classified (HNOC) or not May form explosive peroxides. covered by GHS

3. Composition/information on ingredients

3.1. Substances

Synonyms Benzenemethanol

Formula C7H8O Molecular weight 108.14 g/mol CAS No 100-51-6 202-859-9 EC-No.

Component	Classification	Control parameters	
Benzyl alcohol			2 mg/m2
	Acute Tox. 4; Eye Irrit.2A; H302, H332, H319	≤100	2 mg/m3

Additional Information

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

General advice - Consult a physician. Show this safety data sheet to the doctor in attendance. - Move out of dangerous area. If inhaled - If breathed in, move person into fresh air. If not breathing, give artificial respiration. - Consult a physician.

In case of skin contact In case of eve contact If swallowed

- Wash off with soap and plenty of water. Consult a physician. - Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

- Never give anything by mouth to an unconscious person. Rinse mouth with water.

- Consult a physician.

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4.2. Most important symptoms and effects, both acute and - The most important known symptoms and effects are described in the labelling (see

2.2) and/or in section 11 - No data available

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

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

5.4. Further information

5.2. Special hazards arising from the substance or mixture - Carbon oxides, Combustible.

fighters

- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.3. Special protective equipment and percautions for fire - Wear self-contained breathing apparatus for firefighting if necessary.

- No data available

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions 6.3. Methods and materials for containment and cleaning

6.4. Reference to other sections

- Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

- For personal protection see section 8.

- Do not let product enter drains.

- Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

- For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

-Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

- For precautions see section 2.2.

-Keep container tightly closed in a dry and well-ventilated place.

- Handle and store under inert gas. hygroscopic - Storage class (TRGS 510): 10: Combustible liquids

- Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Benzyl alcohol	100-51-6	TWA	10 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

a) Eve/face protection

b) Skin protection

c) Body Protection

d) Respiratory protection

e) Control of environmental exposure

- Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

- Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

-Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

- Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

- Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Do not let product enter drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Form: liquid
Odour No data available
Odour Threshold No data available
pH No data available

Melting / freezing point Melting point/range: -16 - -13 °C (3 - 9 °F)

Initial Boiling Point and Boiling Range 203 - 205 °C 397 - 401 °F Flash point 101 °C (214 °F) - DIN 51758

Evaporation rate No data available Flammability (solid, gas) No data available

Upper/lower flammability or explosive limits

Upper explosion limit: 13 %(V)

Lower explosion limit: 1.3 %(V)

Vapour pressure No data available
Vapour density No data available

Relative Density 1.045 g/mL at 25 °C (77 °F)

Water solubility No data available

Partition coefficient n-octanol/water log Pow: 1.05 at 20 °C (68 °F) - Bioaccumulation is not expected.

Auto-ignition temperature

Decomposition temperature

No data available

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

9.2. Other safety information Dissociation constant 15.4 at 25 °C (77 °F)

10. Stability and reactivity

10.1. Reactivity - No data available

10.2. Chemical stability - hygroscopic Stable under recommended storage conditions.

- Test for peroxide formation before distillation or evaporation. Test for peroxide

formation or discard after 1 year.

10.3. Possibility of hazardous reactions - No data available

10.4. Conditions to avoid - A mixture of benzyl alcohol and 58% sulfuric acid decomposed violently when heated

to

180°C. Benzyl alcohol containing 1.4% hydrogen bromide and 1.1% of an iron(II) salt

polymerized exothermally when heated above 100°C.

10.5. Incompatible materials - Strong oxidizing agents

10.6. Hazardous decomposition products - Hazardous decomposition products formed under fire conditions.

: Carbon oxides

- Other decomposition products

: No data available

- In the event of fire: see section 5

11. Toxicological information

Skin corrosion/irritation

11.1. Information on toxicological effects

Acute toxicity LD50 Oral - Rat - male - 1,620 mg/kg

Remarks: (ECHA)

LD50 Oral - Rat - 1,230 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Excitement.

Behavioral:Coma.

LD50 Oral - Rat - male - 1,620 mg/kg

LC50 Inhalation - Rat - male and female - 4 h - > 4.178 mg/I

(OECD Test Guideline 403)

Remarks: (Regulation (EC) No 1272/2008, Annex VI)

Dermal: No data available No data available

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation Eyes - Rabbit Result: irritating

(OECD Test Guideline 405)

Eyes - Rabbit
Result: slight irritation
(OECD Test Guideline 405)

Remarks: (Regulation (EC) No 1272/2008, Annex VI)

Respiratory or skin sensitisation Maximisation Test

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity No data available

OECD Test Guideline 474 Rat - male - Bone marrow

Result: negative

(in analogy to similar products)

11.2. Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens

11.3. Reproductive toxicity

No data available

11.4. Specific target organ toxicity – single exposure

No data available

11.5. Specific target organ toxicity – repeated exposure

No data available

11.6. Aspiration hazard No data available
11.7. Additional Information RTECS: DN3150000

Central nervous system depression

To the best of our knowledge, the chemical, physical, and toxicological properties have

not

been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

12. Ecological information

12.1. Toxicity

Fish static test LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h

(US-EPA)

(OECD Test Guideline 202)

Algae/aquatic plants static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 700 mg/l - 72 h

(OECD Test Guideline 201)

12.2. Persistence and degradability

Biodegradability aerobic - Exposure time 14 d

Result: 92 - 96 % - Readily biodegradable.

(OECD Test Guideline 301C) aerobic - Exposure time 21 d

Result: 95 - 97 % - Readily biodegradable.

(OECD Test Guideline 301A)

Biochemical Oxygen Demand (BOD) 1,550 mg/g
Remarks: (Lit.)

Theoretical oxygen demand 2,515 mg/g
Remarks: (IUCLID)

Ratio BOD/ThBOD 62 %
Remarks: (Lit.)

12.3. Bioaccumulative potential
12.4. Mobility in soil
No data available
No data available

12.5. Results of PBT and vPvB assessment - PBT/vPvB assessment not available as chemical safety assessment not required/not

conducted

12.6 Other adverse effects - No data available

13. Disposal considerations

13.1 Waste treatment methods

Product - Offer surplus and non-recyclable solutions to a licensed disposal company.

- Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging - Dispose of as unused product.

14. Transport information

14.1. DOT (US)Not dangerous goods14.2. IMDGNot dangerous goods14.3. IATA (Country variations may apply)UN number: 3334

Class: 9

Packing group: III

Proper shipping name: Aviation regulated liquid, n.o.s. (Benzyl alcohol)

15. Regulatory information

15.1. SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III,

Section 302.

15.2. SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section

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15.3. SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard

15.4. Massachusetts Right To Know Components

- Benzyl alcohol

- CAS-No.: 100-51-6 - Revision Date: 1993-04-24

No components are subject to the Massachusetts Right to Know Act.

15.5. Pennsylvania Right To Know Components - Benzyl alcohol

- CAS-No.: 100-51-6 - Revision Date: 1993-04-24

15.6. New Jersey Right To Know Components - Benzyl alcohol

- CAS-No.: 100-51-6 - Revision Date: 1993-04-24

16. Other information

16.1. Further information

- Always work safely around open hatches on bulk tanks. The low density makes

flotation difficult for immersed person.