

SAFETY DATA SHEET

Benzyl Alcohol

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Issued: 23/09/2020
Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Identifier:

Chemical Name (EINECS): Benzyl alcohol
Trade Names: Benzyl alcohol
Synonyms: Benzene methanol; Phenylcarbinol; α -Hydroxytoluene.
CAS Number: 100-51-6
EINECS Number: 202-859-9
Index Number: 603-057-00-5
REACH Registration Number: 01-2119492630-38-XXXX

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

Identified use(s):

Manufacturing: Formulating (mixing) of preparations and re-packaging.
Industrial Uses: Use of substances as such or in preparation at industrial sites.
Uses by professional workers: Professional use in the public domain.
Uses by consumer: Consumer use in private households.

Most common technical function of substance (what it does):

Intermediates, odour agents, laboratory chemicals, photosensitive agents and other photo-chemicals, Solvents, Viscosity adjustors, other: flow improver.

Uses advised against: None identified.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Regulation 1272/2008 (CLP): Acute Tox. 4
Eye Irrit. 2

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Label elements:

According to Regulation (EC) No. 1272/2008 (CLP):

Hazard Pictogram:



Signal word(s):

Warning

Hazard statement(s):

H302 Harmful if swallowed
H332 Harmful if inhaled
H319 Causes serious eye irritation

Precautionary statement(s):

P102 Keep out of reach of children
P261 Avoid breathing vapours/spray
P270 Do not eat, drink or smoke when using this product
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.
P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards:

No further information

3. COMPOSITION / INFORMATION ON INGREDIENTS

According to REACH regulations this product is a substance:

CAS Number	EINECS Number	REACH registration Number	ECC Index Number	Classification according to Regulation 1272/2008	Content
100-51-6	202-859-9	01-2119492630-38-xxxx	603-057-00-5	H302 H332 H319	100%

See section 16 for the full text of the H-statements declared above.

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

Description of first aid measures:

General Advice:

Protection of first aiders; Put on appropriate personal protective equipment. Move exposed person to fresh air. Remove contaminated clothing and shoes.

Inhalation:

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

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Skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention.

Eye contact: If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes and get medical attention.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious).
IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

Most important symptoms and effects, both acute and delayed: Harmful by Ingestion, Inhalation and Skin contact

Indication of any immediate medical attention and special treatment needed:

Keep affected person warm and at rest. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Suitable extinguishing media: Water spray or fog, alcohol resistant foam, dry chemical or carbon.

Unsuitable extinguishing media: High Volume Water Jet.

Special hazards arising from the substance or mixture: Vapours may ignite.

Advice for fire-fighters: If exposed to fire toxic gasses may be formed.

Protection of fire-fighters: Wear suitable protective clothing. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Shut off all ignition sources. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Ensure adequate ventilation. Evacuate the area and keep personnel upwind. Wear protective clothing. Wear suitable respiratory protection.

Environmental precautions: Do not allow to enter public sewers and watercourses.

Methods and material for containment and cleaning up: Absorb spillage in earth or sand. Collect as much as possible in clean container for reuse or disposal. Wash thoroughly after dealing with spillage. Dispose of the collected material according to regulations.

Reference to other sections: For personal protection see Section 8 and Section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: The usual precautions for handling chemicals should be observed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Avoid contact with acid. Do not mix with oxidising substances. Equipment should be earthed.

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Conditions for safe storage, including any incompatibilities:

Storage conditions: Keep away from oxidising substances Keep away from strong acids.
Store in suitable mild or stainless steel containers .Store in suitable polyethylene containers.
Storage containers should not be made from aluminium. Storage containers should not be made from copper.

Specific end uses: No further relevant information.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Regulated occupational exposure limit values: None

DNEL (dermal): long term 8.0 mg/kg

DNEL (inhalational): long term 22 mg/m³

Note - DNEL values are for Workers only not Consumers

PNEC: Freshwater 1 mg/l

PNEC: Marine 0.1 mg/l

PNEC: Soil 0.456 mg/kg

Exposure controls:

Appropriate engineering controls: Use only with adequate ventilation.

Ventilation required along the floor.

Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Respiratory protection: Wear filter mask, filter type A.

Hand protection: Wear suitable gloves.

Gloves material: >8 hours (breakthrough time): Butyl rubber or Vitron.

Replace damaged gloves.

Gloves made from the following materials are not suitable: Natural rubber (latex), neoprene, nitrile rubber.

Eye protection: Safety glasses with side shields.

Skin protection: Wear suitable protective clothing.

Hygiene Measures: When using do not eat, drink or smoke. Wash hands after handling compounds and before eating, smoking or using the lavatory and at the end of the day.

Environmental exposure controls: No special measures required.

Further information: Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual exposure situation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Odour: Aromatic odour

Appearance: Clear Liquid

Boiling point: 205.3°C

Vapour density (air = 1): 3.7

Melting Point: minus 15.4°C

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Solubility:	Completely soluble in water
Flash Point:	100.4°C
Flammability:	Lower flammability limit 1.3%(in air) Upper flammability limit 13%(in air)
Auto-ignition point:	436°C at 760 mm Hg
Partition coefficient:	n-Octanol/water 1.05
Viscosity:	5.84 mPa.s at 25°C

10. STABILITY AND REACTIVITY

Incompatible materials: Incompatible with strong oxidising substances.

Hazardous decomposition products: Decomposition products may include carbon oxides.

Reactivity: Stable under normal temperature conditions and recommended use.

Chemical stability: Stable under normal temperature conditions and recommended use.

Possibility of hazardous reactions: Air contact may result in Benzaldehyde being formed.

Conditions to avoid: Avoid contact with oxidising substances.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute Toxicity:

LD50 (oral, rat): 1620 mg/kg. **LC50 (inhalation) :** >4.178 mg/l/4h

Inhalation: Causes dizziness, confusion, headache or stupor.

Contact with skin: May cause irritation.

Contact with eyes: Causes severe irritation.

Ingestion: May cause nausea/vomiting. The ingestion of significant quantities may cause unconsciousness.

Carcinogenicity: No evidence of carcinogenic effects.

Teratogenicity: No evidence of reproductive effects.

Mutagenicity: No evidence of mutagenic effects. No evidence of reproductive effects.

12. ECOLOGICAL INFORMATION

Toxicity: LC50 (fish): 460 mg/l (96 hr)
EC50 (daphnia): 230 mg/l (48 hr)
IC50 (algae): 770 mg/l (72 hr)
IC50 (bacteria): 390 mg/l (24 hr)

Persistence and degradability: Readily biodegradable.

Bio accumulative potential: Bioaccumulation is insignificant.

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Mobility in soil:

Water solubility: 40% at 25°C

Results of PBT and vPvB assessment: Not a PBT according to REACH Annex XIII.

Other adverse effects: On available data, substance is not harmful to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Incineration by an approved method could be considered.
Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

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

No further relevant information.

Chemical safety assessment: Chemical Safety Assessment has been carried out for this substance.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3:

H302 Harmful if swallowed
H332 Harmful if inhaled
H319 Causes serious eye irritation

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.