

SAFETY DATA SHEET

Benzyl Alcohol

Page 1
Issued: 28/07/2025
Revision No: 5

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

Product identifier:

Product Name: BENZYL ALCOHOL
Index No: 603-057-00-5
EC Number: 202-859-9
CAS No: 100-51-6
Synonyms: BENZYL ALCOHOL EXTRA PURE GRADE, BENZYL ALCOHOL PARFUM FG/PH, BENZYL ALCOHOL PUR TSO, BENZYL ALOCHOL 99.9%, BENZENE METHANOL, PHENYLCARBINOL, A-HYDROXYTOLUENE, PHENYLMETHANOL, (HYDROXYMETHYL) BENZENE, A TOLUENOL, BENZYL ALCOHOL PUR INS, BENZYL ALCOHOL PURE GRADE, BENZYL ALCOHOL SPECIAL GRADE, BENZYL ALCOHOL PURE VAS, BENZYL ALCOHOL PERFUME GRADE, BENZYL ALCOHOL EOL

Pure substance/mixture: Substance
Contains: BENZYL ALCOHOL
Formula: C₇H₈O
Molecular weight: 108.14

Company name: Nexchem Ltd
 Unit 3 Barshaw Park
 Leycroft Road
 Leicester
 LE4 1ET
 Tel: 0116 2311130
 24/7 Emergency Tel: 0800 246 1274
 Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Acute toxicity – Oral – Category 4 - (H302)
 Skin sensitisation – Category 1B (H317)
 Serious eye damage/eye irritation – Category 2 - (H319)

Label elements:

Contains: BENZYL ALCOHOL



Signal word: Warning

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 2

Hazard statements:	H302 - Harmful if swallowed. H317 May cause an allergic skin reaction. H319 - Causes serious eye irritation.
Precautionary statements:	P261 – Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash face, hands and any exposed skin thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P312 – Call a POISON CENTRE or doctor if you feel unwell. P201 – Dispose of contents/container to an approved waste disposal plant.
Other hazards:	No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical name:	BENZYL ALCOHOL 100-51-6
Weight-%:	>99%
EC No (EU Index No):	202-859-9 (603-057-00-5)
UK REACH registration number:	-
Classification according to GB CLP (SI 2020/1567 as amended):	Acute Tox. 4 (H302), Skin Sens. 1B (H317), Eye Irrit. 2 (H319)
Specific concentration limit (SCL):	-
M-Factor:	-
M-Factor (long-term):	-

Full text of H- and EUH-phrases: see section 16: This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59).

4. FIRST AID MEASURES

Description of first aid measures:

General advice:	Show this safety data sheet to the doctor in attendance.
Inhalation:	Remove to fresh air.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact:	Wash skin with soap and water. May cause an allergic reaction. In the case of skin irritation or allergic reactions see a doctor.
Ingestion:	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider:	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 3

Most important symptoms and effects, both acute and delayed

Symptoms:	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
Inhalation:	Coughing and/ or wheezing.
Eyes:	Causes serious eye irritation. May cause redness and tearing of the eyes.
Dermal:	May cause an allergic skin reaction.
Ingestion:	Harmful if swallowed

Indication of any immediate medical attention and special treatment needed:

Note to doctors: May cause sensitisation in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable Extinguishing Media:	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.
Large Fire:	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media:	Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical: May cause sensitisation by skin contact.

Hazardous combustion products: Carbon oxides.

Advice for firefighters:

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.
Other information:	Refer to protective measures listed in Sections 7 and 8.
For emergency responders:	Use personal protection recommended in Section 8.

Environmental precautions: See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up:

Methods for containment:	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up:	Collect with absorbent, non-combustible material into suitable containers.
Prevention of secondary hazards:	Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections: See section 8 for more information. See section 13 for more information.

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 4

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash it before use. Keep away from heat, sparks and open flame.

General hygiene considerations: Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Ensure that eyewash stations and safety showers are close to the workstation location.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep at temperatures between -12 and 50°C.
May be stored under Nitrogen.
Protect from direct sunlight.

Packaging materials:

Suitable container/equipment material: Steel. stainless steel. Polyethylene (PE). Glass.

Unsuitable container/equipment material: Aluminium. Iron.

Specific use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL) – Workers:

Chemicals name	Oral	Dermal	Inhalation
BENZYL ALCOHOL 100-51-6		8 mg/kg bw/day [4] [6] 40 mg/kg bw/day [4] [6]	22 mg/m ³ [4] [6] 110 mg/m ³ [4] [7]

[4] Systemic health effects.

[6] Long term.

[7] Short term.

Derived No Effect Level (DNEL) - General Public:

Chemicals name	Oral	Dermal	Inhalation
BENZYL ALCOHOL 100-51-6	20 mg/kg bw/day [4] [7] 4 mg/kg bw/day [4] [6]	20 mg/kg bw/day [4] [7] 4 mg/kg bw/day [4] [6]	27 mg/m ³ [4] [7] 5.4 mg/m ³ [6] [7]

[4] Systemic health effects.

[6] Long term.

[7] Short term.

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 5

Predicted No Effect Concentration (PNEC):

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
BENZYL ALCOHOL 100-51-6	1 mg/l	2.3 mg/L	0.1 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
BENZYL ALCOHOL 100-51-6	5.27 mg/kg sediment dw	0.527 mg/kg sediment dw	39 mg/l	0.456 mg/kg soil dw	

Exposure controls:

Engineering controls: Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection: Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Gloves:

Duration of contact	PPE- Glove material	Glove thickness	Break through time
Long term (repeated)	Viton™	0.70 mm	>480 minutes
Short term	Nitrile rubber	0.40 mm	>30 minutes
Long term (repeated)	Butyl rubber	0.30 mm	>480 minutes

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators. Type A.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid

Appearance: Oily liquid

Colour: Colourless

Odour: Aromatic

Odour threshold: 5 ppm

Melting point / freezing point: -15°C

Initial boiling point and boiling range: 205°C

Flammability: No information available

Flammability Limit in Air: No information available

Upper flammability or explosive limits: 13.0%

Lower flammability or explosive limits: 1.3%

Flash point: 100°C

Autoignition temperature: 436°C

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 6

Decomposition temperature:	No information available
pH:	No information available
pH (as aqueous solution):	No information available
Kinematic viscosity:	No information available
Dynamic viscosity:	5.58 mPa s @ 20°C
Water solubility:	40 g/l ;@ 25°C
Solubility(ies):	Soluble in water
Partition coefficient:	Log Kow 1.10
Vapour pressure:	0.07 hPa @ 20°C
Relative density:	1.04 20°C
Bulk density:	1040 mg/m ³ @ 20°C
Liquid Density:	No information available
Relative vapour density:	3.7 @ 20°C.
Particle characteristics:	No information available
Particle Size:	No information available
Particle Size Distribution:	No information available
Explosive properties:	No information available
Oxidising properties:	No information available
Molecular weight:	108.14 Evaporation rate 0.007 (Butyl Acetate)

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions.

Chemical stability:

Stability: Hygroscopic.

Explosion data:

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

Possibility of hazardous reactions: Oxidising agents.

Conditions to avoid: Excessive heat. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials: Strong oxidising agents. Strong acids. Metals. Water.

Hazardous decomposition products: Carbon oxides.

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 7

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on likely routes of exposure:

Product Information:

Inhalation: May cause irritation.
Eye contact: Causes serious eye irritation.
Skin contact: May cause an allergic skin reaction.
Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Acute toxicity:

Numerical measures of toxicity:

Component Information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
BENZYL ALCOHOL	= 1200 mg/kg (Rat)	= 2500 mg/kg (Rabbit)	>5.4 mg/l (Rat) 4h

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Based on available data the classification criteria are not met.

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal		24, 48, 72 hour	May cause slight irritation

BENZYL ALCOHOL (100-51-6):

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 404	Rabbit	Dermal			Non-irritant

Serious eye damage/eye irritation: Causes serious eye irritation.

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye		24, 48, 72 hour	Causes serious eye irritation

BENZYL ALCOHOL (100-51-6):

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 405	Rabbit	Eye			Causes serious eye irritation

Respiratory or skin sensitisation: May cause an allergic skin reaction.

Method	Species	Exposure route	Results
	Mouse	Dermal	Sensitising

Germ cell mutagenicity: Based on available data the classification criteria are not met.

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation Test	Ames test	Negative

Carcinogenicity: Based on available data the classification criteria are not met.

Method	Species	Results
OECD Test No. 451: Carcinogenicity Studies	Rat	Not Carcinogenic

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 8

Reproductive toxicity: Based on available data the classification criteria are not met.

BENZYL ALCOHOL (100-51-6):

Method	Species	Results
	Mouse	NOAEL 200 mg/kg

STOT - single exposure: Based on available data the classification criteria are not met.

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 451	Rat	Oral	400 mg/kg		NOAEL
OECD 412	Rat	Inhalation	1072 mg/kg		NOAEC

STOT - repeated exposure: Based on available data the classification criteria are not met.

Component Information:

BENZYL ALCOHOL (100-51-6):

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	Oral gavage	400 mg/kg	13 weeks	NOAEL

Aspiration hazard: Based on available data the classification criteria are not met.

Other adverse effects: No information available.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity: Not considered to be harmful to aquatic life.

BENZYL ALCOHOL (100-51-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Pimephales promelas	LC50	460 mg/L	96 hours	
OECD Test No. 202: Daphnia sp. Acute Immobilisation Test	Daphnia magna	EC50	230 mg/L	48 hours	
OECD Test No. 211: Daphnia magna Reproduction Test	Daphnia magna	NOEC	51 mg/L	21 days	
OECD Test No. 201: Freshwater algae and Cyanobacteria, Growth inhibition Test	Pseudokirchneriella subcapitata	EC50	770 mg/L	72 hours	
OECD Test No. 201: Freshwater algae and Cyanobacteria, Growth inhibition Test	Pseudokirchneriella subcapitata	NOEC	310 mg/L	72 hours	
	Toxicity to microorganisms	EC10	658 mg/L	17 hours	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
BENZYL ALCOHOL	-	LC50: =460mg/L (96h, Pimephales promelas) LC50: =10mg/L (96h, Lepomis macrochirus)	-	EC50: =23mg/L (48h, water flea)

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 9

Persistence and degradability: Readily biodegradable.

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	14 days	92 – 96% Biodegradation	Readily biodegradable

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	28 days	92-96% Biodegradation	Readily biodegradable

Bioaccumulative potential:

Bioaccumulation: Not likely to bioaccumulate.

Component Information:

Chemical name	Partition coefficient
BENZYL ALCOHOL	1.10

Mobility in soil: Soluble in water.

Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
BENZYL ALCOHOL	The substance is not PBT / vPvB

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste from residues/unused products: Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

Contaminated packaging: Do not reuse empty containers.

14. TRANSPORT INFORMATION

IATA / IMDG / RID / ADR: Not regulated.

15. REGULATORY INFORMATION

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

National regulations:

Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

Persistent Organic Pollutants: Not applicable.

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 10

Export Notification requirements: Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended): Not applicable

The Ozone-Depleting Substances Regulations 2015: Not applicable

The Biocidal Products Regulations 2001 (as amended): Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended): Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended): Not applicable

International Inventories:

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AIIC	Australian Inventory of Industrial Chemicals
NZIoC	New Zealand Inventory of Chemicals

Chemical safety assessment: A 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 section 3:

H302 - Harmful if swallowed.
H332 - Harmful if inhaled.

Legend:

SVHC: Substances of Very High Concern for Authorisation:

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SAFETY DATA SHEET

Benzyl Alcohol

Issued: 28/07/2025

Page 11

Legend Section 8: Exposure controls/personal protection:

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value
*	Skin designation
+	Sensitisers

Revision Note: SDS sections updated 1 9 16.

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.