

# SAFETY DATA SHEET

# 4-Hydroxybenzyl alcohol

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

#### 1.1. Product identifier

Product name	4-Hydroxybenzyl alcohol
Product number	32349776

CAS number 623-05-2

EC number 210-768-0

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

dentified uses	For research purposes only.
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Uses advised against No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

Supplier	Molekula Ltd.
	Lingfield Way,
	Darlington,
	DL1 4XX,
	United Kingdom
	+44 (0) 3302000333
	info@molekula.com

#### 1.4. Emergency telephone number

+44 (0) 7769276927

### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture		
Classification (SI 2019 No. 720	<u>))</u>	
Physical hazards	Not Classified	
Health hazards	Eye Irrit. 2 - H319	
Environmental hazards	Aquatic Chronic 3 - H412	
2.2. Label elements		
EC number	210-768-0	
Hazard pictograms		

Signal word Warning H319 Causes serious eye irritation. Hazard statements H412 Harmful to aquatic life with long lasting effects.

Precautionary statements	<ul> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 If eye irritation persists: Get medical advice/ attention</li> </ul>
	P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.

#### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients	
4-Hydroxybenzyl alcohol	
623-05-2	
210-768-0	
C7H8O2	

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
Skin contact	Rinse with water.
Eye contact	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symptoms and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Irritating to eyes.
4.3. Indication of any immediate medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting measures	

5.1. Extinguishing media

Quitable outinguishing modio	Extinguish with clocked assistant forms, each an disvide, day powder environter for the first
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards	None known.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.
6.2. Environmental precaution	<u>s</u>
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handling	
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment.

Advice on generalWash promptly if skin becomes contaminated. Take off contaminated clothing. Washoccupational hygienecontaminated clothing before reuse.

# 4-Hydroxybenzyl alcohol

### 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
Storage class	Miscellaneous hazardous material storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure cont	rols/Personal protection
8.1. Control parameters	
8.2. Exposure controls	
Protective equipment	
$\Theta$	
Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full- face respirator may be required instead.
Hand protection	No specific hand protection recommended. Avoid contact with skin.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Appearance	Powder.
Colour	White/off-white. to Pale pink. to Light (or pale). Yellow.
Odour	Pungent.
Odour threshold	No information available.
рН	No information available.
Melting point	114-122°C/237.2-251.6°F

Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	0.0133 hPa @ 25°C/77°F
Vapour density	No information available.
Relative density	1.1 g/cm3 @ 25°C/77°F
Solubility(ies)	25.5 g/l water @ 20°C/68°F
Partition coefficient	log Pow: 0.21 (20°C/68°F)
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
9.2. Other information	
Molecular weight	124.14
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	Avoid heat.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents. Acids. Acid chlorides Acid anhydrides.
10.6. Hazardous decomposition products	
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).
SECTION 11: Toxicological in	formation

**SECTION 11: Toxicological information** 

# 11.1. Information on toxicological effects

Acute toxicity - oral

Summary	Based on available data the classification criteria are not met.	
Acute toxicity - dermal		
Summary	Based on available data the classification criteria are not met.	
Acute toxicity - inhalation Summary	Based on available data the classification criteria are not met.	
Skin corrosion/irritation		
Summary	Based on available data the classification criteria are not met.	
Serious eye damage/irritation		
Summary	Causes serious eye irritation.	
Respiratory sensitisation		
Summary	Based on available data the classification criteria are not met.	
Skin sensitisation	Based on available data the classification criteria are not met.	
Summary	based on available data the classification chiena are not met.	
<u>Germ cell mutagenicity</u> Summary	Based on available data the classification criteria are not met.	
Carcinogenicity		
Summary	Based on available data the classification criteria are not met.	
IARC carcinogenicity	None of the ingredients are listed or exempt.	
Reproductive toxicity		
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity - single exposure		
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -		
Summary	Based on available data the classification criteria are not met.	
Aspiration hazard Summary	Not relevant. Solid.	
Guninary		
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	Irritating to eyes.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Target organs	No specific target organs known.	
SECTION 12: Ecological infor	mation	

<u>12.1. Toxicity</u> Acute aquatic toxicity Summary

Based on available data the classification criteria are not met.

Chronic aquatic toxicity		
Summary	Harmful to aquatic life with long lasting effects.	
12.2. Persistence and degrad	ability	
Persistence and degradability	The degradability of the product is not known.	
12.3. Bioaccumulative potential		
Bioaccumulative potential	No data available on bioaccumulation.	
Partition coefficient	log Pow: 0.21 (20°C/68°F)	
12.4. Mobility in soil		
Mobility	No data available.	
12.5. Results of PBT and vPv	B assessment	
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal consid	lerations	
13.1. Waste treatment methods		
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product	
	residues and hence be potentially hazardous.	
Disposal methods	Do not empty into drains.	
Disposal methods SECTION 14: Transport inforr	Do not empty into drains.	
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SECTION 14: Transport inform         General         14.1. UN number         Not applicable.         14.2. UN proper shipping name         Not applicable.         14.3. Transport hazard class (M)         No transport warning sign required         14.4. Packing group         Not applicable.         14.5. Environmental hazards         Environmentally hazardous survivo	Do not empty into drains.  nation  The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).  g seg uired.  bstance/marine pollutant	
SECTION 14: Transport inform General <u>14.1. UN number</u> Not applicable. <u>14.2. UN proper shipping name</u> Not applicable. <u>14.3. Transport hazard class(</u> No transport warning sign required <u>14.4. Packing group</u> Not applicable. <u>14.5. Environmental hazards</u> Environmentally hazardous sur No.	Do not empty into drains.  nation  The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).  g so) uired.  bstance/marine pollutant	

### Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

# SECTION 15: Regulatory information

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

National regulations

onsHealth and Safety at Work etc. Act 1974 (as amended).The Carriage of Dangerous Goods and Use of Transportable Pressure EquipmentRegulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].EH40/2005 Workplace exposure limits.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

#### **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.

#### **SECTION 16: Other information**

Abbreviations and acronyms used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</li> <li>IATA: International Air Transport Association.</li> <li>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>CAS: Chemical Abstracts Service.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>LC50: Lethal Concentration to 50 % of a test population.</li> <li>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>ECso: 50% of maximal Effective Concentration.</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul>
Classification abbreviations and acronyms	Eye Irrit. = Eye irritation Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Classification procedures according to SI 2019 No. 720	Eye Irrit. 2 - H319: : Expert judgement. Aquatic Chronic 3 - H412: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	20/04/2022
Revision	1
SDS number	901
Hazard statements in full	H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.