# SAFETY DATA SHEET



Revision date: 31-May-2023

Revision Number 6

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER			
Product identifier			
Product Name	BENZYL ALCOHOL		
Product Code(s)	000031005301		
Other means of identification			
CAS No.	100-51-6		
Synonyms	Benzyl Alcohol (Photo); Benzyl Alcohol Tech; Benzyl Alcohol Pure; Benzene methanol; Phenylcarbinol; alpha-Hydroxytoluene; Phenylmethanol; (Hydroxymethyl)benzene; alpha-Toluenol; Benzyl Alcohol FCC; AAALC57060.		
Recommended use of the chemical	and restrictions on use		
Recommended use	Chemical intermediate. Solvent.		
Uses advised against	No information available		
Details of the supplier of the safety	data sheet		
<u>Supplier</u> Ixom Operations Pty Ltd (Incorporated in Australia) NZBN: 9429041465226 Address: 166 Totara Street Mt Maunganui South New Zealand			
Telephone Number: +64 9 368 2700 Facsimile: +64 9 368 2710			
For further information, please contact			
Contact Point	Product Safety Department		
Emergency telephone number			
Emergency Telephone	0 800 734 607 (ALL HOURS)		
Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.			
2. HAZARDS IDENTIFICATION			
Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.			

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

**GHS Classification** 

SIGNAL WORD Warning

Approval Code: HSR001039

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

#### Label elements



Hazard statements

H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H332 - Harmful if inhaled

### **Precautionary Statements - Prevention**

Avoid breathing vapors or mists Wash face, hands and any exposed skin thoroughly after handling Wash eyes thoroughly after handling. Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace Wear protective gloves / protective clothing / eye protection / face protection **Precautionary Statements - Response** Specific treatment (see First aid on this SDS) 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 ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth **Precautionary Statements - Storage** No storage statements **Precautionary Statements - Disposal** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Other hazards which do not result in classification

Causes mild skin irritation

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Chemical name	CAS No.	Weight-%
Benzyl alcohol	100-51-6	60-<=100
Benzaldehyde	100-52-7	0.025-<0.25
Benzene, 1,1"-[oxybis(methylene)]bis-	103-50-4	0.025-<0.25

### 4. FIRST AID MEASURES

### Description of first aid measures

Description of first aid measures		
General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.	
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26	
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, (trained personnel should) give oxygen. If breathing is irregular or stopped, administer artificial respiration. Seek immediate medical attention/advice.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water. Call a physician if symptoms occur.	
Ingestion	Clean mouth with water. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	Irritation. May cause redness and tearing of the eyes.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE FIGHTING MEASU	RES	
Suitable Extinguishing Media		
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.	
Unsuitable extinguishing media		
Specific hazards arising from the chemical		
Specific hazards arising from the c	High volume water jet.	
Specific hazards arising from the c Specific hazards arising from the chemical		
Specific hazards arising from the	hemical Combustible liquid. Containers may explode when heated. In the event of fire, cool tanks with water spray. Cool drums with water spray. Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks).	
Specific hazards arising from the chemical	<ul> <li>combustible liquid. Containers may explode when heated. In the event of fire, cool tanks with water spray. Cool drums with water spray. Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks). Pay attention to flashback.</li> <li>Carbon oxides.</li> </ul>	

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes and inhalation of vapors. Evacuate personnel to safe areas. Remove all sources of ignition. Stop leak if you can do it without risk. Do not touch or walk through spilled material. Use personal protective equipment as required. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.	
Precautions to prevent secondary hazards		

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Remove all sources of ignition. Use personal protection equipment. Wash thoroughly after handling. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use.	
Incompatible materials	Strong oxidizing agents. Acids. Aluminium. Iron.	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

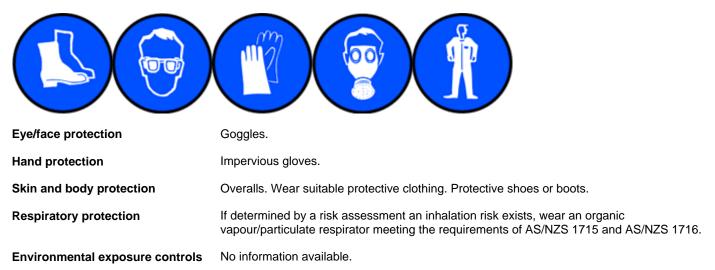
Exposure Limits

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority.

Appropriate engineering controls		
Engineering controls	Ventilation systems. Ensure adequate ventilation, especially in confined areas.	
Individual protection measures, such as personal protective equipment		

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Bhusis al atata		
Physical state	Liquid	
Appearance	Clear	
Color	Colourless	
Odor	Slight Aromatic	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	-15.4°C	None known
Boiling point / boiling range	205.3°C (1013 hPa)	None known
Flash point	100.4°C	CC (closed cup)
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive limits	No data available	
Vapor pressure	0.07 hPa @20°C	None known
Vapor density	>1 (air=1)	None known
Relative density	1.045 @20°C	None known
Water solubility	40 g/L @ 25 °C	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	436°C	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	5.84 mPa.s @20°C	None known

Other information

# **10. STABILITY AND REACTIVITY**

<u>Reactivity</u>		
Reactivity	No information available.	
Chemical stability		
Stability	Stable under normal conditions.	
Explosion data		
Sensitivity to mechanical impact	None.	
Sensitivity to static discharge	None.	
Possibility of hazardous reactions		
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid		
Conditions to avoid	Heat, flames and sparks. Exposure to air.	
Incompatible materials		
Incompatible materials	Strong oxidizing agents. Acids. Aluminium. Iron.	
Hazardous decomposition products		

Hazardous decomposition products Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	May cause irritation. Harmful by inhalation.
Eye contact	Causes serious eye irritation.
Skin contact	Causes mild skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed.
Symptoms	Irritation. May cause redness and tearing of the eyes.
Acute toxicity	

### Numerical measures of toxicity

Refer to component information below.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol	= 1230 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 8.8 mg/L (Rat)4 h
Benzaldehyde	1430 mg/kg	2500 mg/kg	1 - 5 mg/L/4hr (1)
Benzene, 1,1"-[oxybis(methylene)]bis-	= 2500 mg/kg(Rat)	-	-

See section 16 for terms and abbreviations

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

Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

# **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

**Ecotoxicity** Keep out of waterways.

Terrestrial ecotoxicity

There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Benzyl alcohol	EC50: =35mg/L (3h, Anabaena	LC50: =460mg/L (96h, Pimephales	EC50: =23mg/L (48h, water flea)
	variabilis)	promelas) LC50: =10mg/L (96h,	
		Lepomis macrochirus)	
Benzaldehyde	-	LC50: 10.6 - 11.8mg/L (96h,	EC50: =50mg/L (24h, Daphnia
		Oncorhynchus mykiss) LC50:	magna)
		=12.69mg/L (96h, Oncorhynchus	
		mykiss) LC50: 0.8 - 1.44mg/L (96h,	
		Lepomis macrochirus) LC50: 6.8 -	
		8.53mg/L (96h, Pimephales	
		promelas) LC50: =7.5mg/L (96h,	
		Lepomis macrochirus)	
Benzene,	-	LC50: =6.8mg/L (96h, Oryzias	-
1,1"-[oxybis(methylene)]bis-		latipes)	

### Persistence and degradability

Persistence and degradability Readily biodegradable.

Bioaccumulative potential Bioaccumulation	No information available.				
<u>Mobility</u>					
Mobility in soil	No information available.				
Component Information					
Chemica		Partition coefficient			
Benzyl alcohol		1.1			
Benzalo	lehyde	1.48			
Other adverse effects					
Other adverse effects	No information available.				
13. DISPOSAL CONSIDERATIONS					
Waste treatment methods					
Waste from residues/unused products	Substances (Disposal) No and Revocations) Notice 2 characteristics or composi	Dispose of product in packaging/container in a way that is consistent with the Hazardous Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments and Revocations) Notice 2020. Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste.			
Contaminated packaging		Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.			
14. TRANSPORT INFOR	RMATION				
ROAD AND RAIL TRANSPORT	Not classified as a Danger Land; NON-DANGEROUS	rous Good under NZS 5433 Transport of Dangerous Goods on S GOODS.			
IATA_		ous Goods by the criteria of the International Air Transport erous Goods Regulations for transport by air; ODS.			
IMDG_		us Goods by the criteria of the International Maritime Dangerous ) for transport by sea; NON-DANGEROUS GOODS.			
15. REGULATORY INFO	ORMATION				
Safety, health and environmental regulations/legislation specific for the substance or mixture					

New Zealand

**National regulations** 

See section 8 for national exposure control parameters

### International Inventories

Legend:

NZIOC - New Zealand Inventory of Chemicals

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

### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **16. OTHER INFORMATION**

Supplier Safety Data Sheet 01/2023

Prepared By	This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).		
Issuing Date:	31-May-2023		
Reason(s) For Issue:	5 Yearly Revised Primar	ry SDS	
Revision Note:         The symbol (*) in the margin of this S         Key or legend to abbreviations and Legend Section 8: EXPOSURE CON TWA         TWA       TWA (time-weight Ceiling         Maximum limit val C       Carcinogen         Key literature references and source Agency for Toxic Substances and Dis U.S. Environmental Protection Agence European Food Safety Authority (EFS EPA (Environmental Protection Agence Acute Exposure Guideline Level(s) (A U.S. Environmental Protection Agence U.S. Environmental Protection Agence	acronyms used in the si TROLS/PERSONAL PRO ed average) ue ces for data used to comp ease Registry (ATSDR) y ChemView Database SA) cy) EGL(s)) y Federal Insecticide, Fung	afety data sheet <u>TECTION</u> STEL * pile the SDS gicide, and Rodentic	STEL (Short Term Exposure Limit) Skin designation

Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian Industrial Chemicals Introduction Scheme (AICIS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

**End of Safety Data Sheet**