

**MSDS** 

**Material Safety Data Sheet** 

## **BENZYL ALCOHOL**



1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY			
PRODUCT NAME	Benzyl alcohol		
RECOMMENDED USE &			
RESTRICTIONS ON USE	Research use only		
INFORMATION OF MANUFACTURER/IMPORTER/SUPPLIER			
COMPANY	Eurolab ®		
ADDRESS	54-58 High Street Edgware, Middlesex, HA8 7EJ, UK		
EMERGENCY PHONE			
E-MAIL ADDRESS			

2. HAZARDS	IDENTIFICATIO	N
GHS	Acute toxicity(Oral) : Category 4	
CLASSIFICATI	Acute toxicity(Derm	nal) : Category 4
ON	Acute toxicity(inhala	ation : gas) : Category 2
ON	Skin corrosion/irrita	tion : Category 2
	PICTOGRAM	
	HAZARD	DANGER
	SYMBOL	DANGER
LABEL		Harmful if swallowed.
ELEMENTS	HAZARD	Harmful in contact with skin.
	STATEMENTS	Causes skin irritation.
		Fatal if inhaled.
		Do not breathe dust/fume/gas/mist/vapours/spray.
	PRECAUTIONAR	Wash thoroughly after handling.
	Y STATEMENTS	Do not eat, drink or smoke when using this product.
	. STATEMENTO	Use only outdoors or in a well-ventilated area.
		Wear protective gloves/protective clothing/eye protection/face



		T
		protection.
		Wear respiratory protection.
		Use personal protective equipment as required.
		IF SWALLOWED: Call a POISON CENTER or doctor/physician if
		you feel unwell.
		IF ON SKIN: Gently wash with plenty of soap and water.
		IF INHALED: Remove victim to fresh air and keep at rest in a
		position comfortable for breathing.
		Immediately call a POISON CENTER or doctor/physician.
		Call a POISON CENTER or doctor/physician if you feel unwell.
		Get medical advice/attention if you feel unwell.
		Specific treatment is urgent (seeon this label).
		Specific treatment (see on this label).
		Specific measures (see on this label).
		Rinse mouth.
		If skin irritation occurs: Get medical advice/attention.
		Take off contaminated clothing and wash before reuse.
		Wash contaminated clothing before reuse.
		Store locked up.
		Store in a well-ventilated place. Keep container tightly closed.
		Dispose of this material and its container in accordance with
		local/regional/national/international regulation.
OTHER	Health	2
HAZARDS	Fire	1
(NFPA)	Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS			
CHEMILCAL IDENTITY SYNONYMS CAS NUMBER ASSAY			
Benzyl alcohol	Benzenemethanol	100-51-6	Above 99.5%(EP) ; 98~100.5%(KP)



4. FIRST AID MEASURES		
	Wash off immediately with soap and plenty of water. In the case of	
GENERAL ADVICE	respirable dust and/or fumes, use self-contained breathing apparatus and	
	dust impervious protective suit. Use personal protective equipment.	
	Remove any contact lenses at once. Flush eyes well with flooding amounts	
IN CASE OF EYE	of running water for at least 15 minutes. Assure adequate flushing by	
CONTACT	separating the eyelids with sterile fingers. If irritation persists, transport to a	
hospital immediately.		
IN CASE OF SKIN	Remove contaminated clothes and shoes, rinse skin with plenty of water or	
	shower. Use soap to help assure removal. If irritation persists, transport to a	
CONTACT	hospital immediately.	
	Move victim to fresh air. If breathing is difficult, give oxygen. If breathing	
IF INHALED	has stopped, administer artificial respiration. Maintain normal body	
IF INDALED	temperature with a blanket. If irritation persists, transport to a hospital	
	immediately.	
IF SWALLOWED	Rinse mouth, give plenty of water to dilute the substance. Never give	
	anything by mouth to an unconscious person. Transport to a hospital	
	immediately.	

5. FIRE FIGHTING MEASURES		
EXTINGUISHING MEDIA	Carbon dioxide, dry chemical powder, foam, water	
SPECIFIC HAZARDS		
ARISING FROM THE	Toxic, irritating fumes or smoke may be emitted.	
CHEMICAL		
SPECIAL PROTECTIVE		
EQUIPMENT AND	Firemen should wear normal protective equipment(full bunker gear)and	
PRECAUTIONS FOR	positive-pressure self-contained breathing apparatus.	
FIREFIGHTERS:		

## **6. ACCIDENTAL RELEASE MEASURES**



PERSONAL PRECAUTIONS	Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.	
ENVIRONMENTAL PRECAUTIONS	Prevent spills from entering sewers, watercourses or low areas.	
	Do not touch spilled material without suitable protection. After material is	
METHODS FOR	completely picked up, wash the spill site with soap and water and ventilate	
CLEANING UP	the area. Put all wastes in a plastic bag for disposal and seal it tightly.	
	Remove, clean, or dispose of contaminated clothing.	

7. HANDLING AND STORAG			
PRECAUTION FOR SAFE	Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated		
HANDLING	exposure. Handle material with suitable protection.		
CONDITIONS FOR SAFE	Store away from sunlight in well-ventilated dry place at room temperature		
STORAGE	(preferably cool place). Keep container tightly closed.		

8. EXPOSURE	8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
EXPOSURE STANDARDS	ACGIH	No data	
APPROPRIATE	ENGINEERING	Handle in accordance with good industrial hygiene and safety	
CONT	ROLS:	practice. Wash hands before breaks and at the end of workday.	
INDIVIDUAL PROTECTION MEASURES	RESPIRATORY PROTECTION	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup Sigma-Aldrich - 270997 Page 4 of 7 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).	
	EYE	Face shield and safety glasses Use equipment for eye protection	



	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
	OZINI	surface) to avoid skin contact with this product. Dispose of
	SKIN	contaminated gloves after use in accordance with applicable laws
	PROTECTION	and good laboratory practices. Wash and dry hands. The
		selected protective gloves have to satisfy the specifications of EU
		Directive 89/686/EEC and the standard EN 374 derived from it.
		Complete suit protecting against chemicals, The type of
	BODY	protective equipment must be selected according to the
	PROTECTION	concentration and amount of the dangerous substance at the
		specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES		
APPEARANCE	FORM	Liquid
APPEARANCE	COLOR	Colorless
ODO	DUR	Characteristic odor
ODORODOUR TH	RESHOLD VALUE	No data
р	Н	No data
FREEZING	G POINT :	-15 ℃
INITIAL BOI	LING POINT	205 ℃
FLASH	POINT	94 ℃ (c.c.)
EVAPORATING RATE		No data
FLAMMABILI	TY(solid, gas)	No data
EXPLOSI	/E LIMITS	13 / 1.3 %
VAPOR PRESSURE		13.2 Pa (20℃)
SOLUBILITY IN	WATER	4.29 g/100mL (25 °C)
VAPOR DENSITY		3.7
RELATIVE DENSITY		1.045
PARTITION COEFFICIENT: N-OCTANOL/WATER		1.1



AUTOIGNITION TEMPERATURE	436 ℃
DECOMPOSITION TEMPERATURE	No data
VISCOSITY	No data
MOLECULAR WEIGHT	108.14

10. STABILITY AND REACTIVITY		
CHEMICAL STABILITY & POSSIBILITY OF HAZARDOUS REACTIONS	May occur. ; When heated past 100℃= 212年, Benzyl alcohol containing acidic constituents and dissolved iron may polymerize with a rapid increase in temperature.	
CONDITIONS TO AVOID	Sunlight, heat	
INCOMPATIBILE MATERIALS	Strong oxidizers and acids	
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide may be formed.	

11. TOXICOLOGICAL INFORMATION		
INFORMATION		
ON THE LIKELY	No data	
ROUTES OF		
EXPOSURES:		
		LD50(orl,rat): 1230 mg/kg
	ACUTE TOXICITY LD50(skin,rabbit) : 2000 mg/kg	LD50(skin,rabbit) : 2000 mg/kg
	LC50(ihl,rat) : 0.9 mg/L/4hr  SKIN CORROSION/	
	SKIN IRRITATION	Rabbit; 100mg/24hr; Moderate
HEALTH HAZARD	EYE DAMAGE/	Dobbit non irritant
INFORMATION	EYE IRRITATION	Rabbit; non-irritant
	RESPIRATORY	No data
	SENSITIZATION	No data
	SKIN SENSITIZATION	No data
	CARCINOGENICITY	IARC: No data
		OSHA: No data



	ACGIH: No data
	NTP: No data
	EU CLP: No data
GERM CELL	Mutation in microorganisms; mouse; lymphocyte;
MUTAGENICITY	250mg/L(NTPTR* NTP-TR-343, 1989)
TOXIC TO	TDLo(orl,mouse): 6gm/kg(female 6-13 D
REPRODUCTION	preg)(TCMUD8 7, 29, 1987)
SPECIFIC TARGET	
ORGAN TOXICITY	No data
SINGLE EXPOSURE	
SPECIFIC TARGET	
ORGAN TOXICITY	No data
REPEATED EXPOSURE	
ASPIRATION HAZARD	No data

12. ECOLOGICAL INFORMATION		
	TO FISH	LC50 10 mg/L/96 hr
ECOTOXICITY	TO CRUSTACEA	No data
	TO OTHER AQUATIC LIFE	No data
PERSISTENCE/	PERSISTENCE	log Kow 1.1
DEGRADABILITY	DEGRADABILITY	No data
BIOACCUMULATION	ACCUMUKATION	No data
POTENTIAL	BIODEGRADABILITY	94 (%) 28 day (Aerobic, activated sludge)
MOBILITY IN SOIL		No data
OTHER ADVERSE EFFECTS		No data

13. DISPOSAL CONSIDERATION	
DISPOSAL METHODS	Use only licensed transporters and permitted facilities for
	waste disposal.
DISPOSAL CONSIDERATIONS	Dispose of this material and its container in accordance with
	local/regional/national/international regulation.



14. TRANSPORT INFORMATION		
IATA		
UN NUMBER	1987	
UN PROPER SHIPPING NAME	ALCOHOLS,N.O.S.	
TRANSPORT HAZARD CLASS	3	
PACKING GROUP	П	
MARINE POLLUTANT No data		
SPECIAL PRECAUTIONS FOR USER		
IN CASE OF FIRE	F – E	
IN CASE OF LEAK	S - D	

15. REGULATO	RY INFORMATION	
Occupational Safety	and Health Act	Not listed
Toxic Chemicals Co	ntrol Act	Not listed
Safety Control of Da	ingerous Substance Act	4-III (water- insoluble); 2,000L
Wastes Control Act		Not listed
Persistent Organic F	Pollutants Control Act	Not listed
	OSHA	Not listed
	CERCLA	Not listed
	EPCRA302	Not listed
US	EPCRA304	Not listed
REGULATIONS	EPCRA313	Not listed
	ROTTERDAM CONVENTION	Not listed
	STOCKHOLM CONVENTION	Not listed
	MONTREAL PROTOCOL	Not listed
EU	CLASSIFICATION	Xn; R20/22
CLASSIFICATION	RISK PHRASES	R20/22
INFORMATION	SAFETY PHRASES	S2, S26



16. OTHER INFORMATION	
ORIGINATED DATE	2012.01.01
REVISION NUMBER AND DATE	Revision number: 0
	Final revision data: 2012.01.01
OTHER	The information in this MSDS is based on several references and
	the present state of our knowledge. However, the MSDS dose not
	always cover all information about product. The information in this
	MSDS is only provision of information, and It does not represent
	any guarantee of the properties of the product.