



SHRINE CHEMICALS

SECTION – I IDENTIFICATION OF PRODUCT

Identification of the product	: BENZYL ALCOHOL
Synonyms	: Benzenecarbonal; benzene methanol; Alpha-hydroxytoluene; phenyl methyl alcohol; Phenyl carbinol
HS Code	: 29062100
CAS Number	: 100-51-6
Use	: General Solvent in Coating/Paint Applications

SECTION - II HAZARD IDENTIFICATION

2.1 Classification

Classification according to CLP/GHS (Directive 1272/2008/EC):

Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Phrase (s)
Acute Tox. 4	H332	Harmful if inhaled
Acute Tox. 4	H302	Harmful if swallowed

Classification according to 67/548/EC:

Classification	Risk phrases	Safety phrases	Indication(s) of danger
Xn; R20/22	Harmful by inhalation and if swallowed.	(2) 26	Xn

2.2 Labelling

Labelling according to CLP/GHS: (Directive 1272/2008/EC):

Pictogram Signal Word Code(s)	Hazard Statement Code(s)	Suppl. Hazard statement code(s)
GHS07 Wng	H332 H302	Harmful if inhaled Harmful if swallowed

Pictogram(s)



GHS07

Labelling according to 67/548/EC:

Xn; R20/22
S: (2)26



Risk Phrases:
Harmful by inhalation and if swallowed
Safety Phrases:
S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION - III COMPOSITION/INFORMATION ON INGREDIENTS					
Chemical Entity	CAS No.	Proportions (%)	EINECS	Symbol	Determination of the risk
Benzyl Alcohol	100-51-6	>99.50 %	202-859-9		

SECTION - IV FIRST AID MEASURES	
Inhalation	: Remove victim from exposure to fresh air. Keep warm and at rest. If rapid recovery does not occur, seek medical advice.
Eye contact	: Flush eyes with water holding eyelids open. If irritation persists, seek medical advice.
Skin Contact	: Remove contaminated clothing. Wash with plenty of soap and water. If irritation persists, seek medical advice
Swallowed	: Do NOT induce vomiting. Wash mouth out with water. Seek medical advice.

SECTION - V FIRE FIGHTING MEASURES	
Extinguishing Media	: In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.
Hazards from Combustion Products	: Incomplete combustion will produce carbon monoxide and other potentially toxic and/or poisonous vapors.
Special Protective Precautions and Equipments	: Fire fighters should wear a self contained breathing apparatus and full protective clothing along with protective equipment.

SECTION - VI ACCIDENTAL RELEASE MEASURES	
Emergency Procedures	: Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority
Methods and materials for containment and clean up	: Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, labelled, dry, sealable containers and hold for safe disposal.

SECTION - VII HANDLING AND STORAGE	
Handling of Substance	:When using do not eat, drink, avoid contact with the substance, to avoid inhalation of vapors adhere to the principles of personal hygiene, use protective clothing and equipment (as defined in section 8), work in well ventilated areas.
Storage	: Store in a substance sealed packaging, in dry, cool well-ventilated storage place. Storage temperature should not exceed 40 deg C
Shelf Life	: 2 Years if stored in accordance to the advice given above.

SECTION - VIII EXPOSURE CONTROL / PERSONAL PROTECTION	
Personal protective equipment:	
Respirator	: Wear an NIOSH approved respirator where dusts/vapors may be generated.
Eyes	: Chemical goggles or face shield.
Hands	: Protective gloves should be worn.
Clothing:	: Long-sleeved clothing should be worn to prevent skin exposure.
Protective measures and personal hygiene:	Change the contaminated clothing. Wash hands and face after working with this substance. Use cream barrierow-protective to the skin after working with substance.
Engineering Controls	
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.	
The employer is obliged to ensure that the application of personal protective equipment and clothing and footwear had the characteristics of protective and useful, and ensure their appropriate washing, maintenance, repair and decontamination.	

SECTION - IX PHYSICAL & CHEMICAL PROPERTIES			
Appearance	Clear liquid	Ignition Temperature	436°C
Formula	C6H5CH2OH	Specific Heat Value	Not Applicable
Odor	Aromatic odor -	Particle Size	Not Applicable
Vapor Pressure	0.13 mbar @ 20 deg C	Volatile Organic Compounds (VOC) content	No Data
Vapor Density	3.72	Evaporation Rate	<0.01 (Butyl acetate = 1)
Boiling Point	205 deg C	Viscosity (27 deg C)	6.6 mPa.s @ 20 deg C
Melting Point	-15 deg C	Percent Volatile	100

Solubility in water	40 g/l (20°C)	Octanol/Water partition coefficient	: The product is more soluble in oil; log(oil/water) = 1.1
Specific Gravity (27 deg C)	1.044	Saturated Vapor Concentration	: Not Applicable
Flash Point	98.9°C	Additional Characteristics	: Not Applicable
pH	: No Data	Flame Propagation/Burning Rate of Solid Materials	: Not Applicable
Flammability Limits (as percentage volume in air)	: Not Applicable	Properties of materials that may initiate or contribute to fire intensity	Not Applicable
Lower Explosion Limit	1.30 % (V)	Potential for Dust Explosion	: Not applicable. Product is a liquid.
Upper Explosion Limit	13 % (V)		

SECTION - X STABILITY AND REACTIVITY	
Stability	: Product stable under normal conditions of use and storage.
Conditions to avoid	: Incompatible materials, light, exposure to air, exposure to moist air or water, heat.
Materials to avoid	: Incompatibilities with Other Materials: Strong oxidizing agents, acids, aluminum, coatings, iron, plastics, sulfuric acid, nonmetal halides (e.g. diselenium dichloride, disulfur dichloride, phosphorus trichloride).
Hazardous decomposition products	: Carbon monoxide, carbon dioxide

SECTION - XI TOXICOLOGICAL INFORMATION	
Acute Toxicity: LD50 (rat, oral)	: 1360 mg/kg
Further information:	
It is unlikely that the product was harmful in the case of inhalation and ingestion of small quantities. Prolonged and repeated contact with product may cause skin dryness and cracking it. Studies in animals have shown that repeated exposure to high doses can damage the liver and kidneys, a dose within the limits of 250 - 300 ppm were the lack of boundaries.	

SECTION - XII ECOLOGICAL INFORMATION	
Ecotoxicity: Ecotoxicity in water (LC50): 770 mg/l	
Toxicity to aquatic species:	
LC50: 460 mg/l (Fathead minnow (<i>Pimephales promelas</i>), 96 hrs)	
LC50: 10 ppm (Bluegill (<i>Lepomis macrochirus</i>), 96 hrs)	
LC50: 10 - 32 ppm (Silverside Minnow (<i>Menidia peninsulae</i>), 96 hrs)	

Biodegradability: The product is partially removed in biological treatment process. Biodegradation appears to occur under both aerobic and anaerobic conditions, but the data is poor.
Bio-Accumulation: Approx 0.31 BCF
Mobility: If released into water the product will sink. The product is involatile and insoluble and will accumulate in the ground.

SECTION - XIII	DISPOSAL CONSIDERATIONS
Disposal	
Dispose of in accordance with all local, state and federal regulations.	
Special Precautions for land fill or incineration	
Contact a specialist disposal company or the local waste regulator for advice.	

SECTION - XIV	TRANSPORT INFORMATION
ADR/RID:	
UN No.	:
Transportation name:	: Non Regulated
Chemical name:	:
ADR Class	: Non Regulated
Packing group	: Non Regulated
Domestic water transport (AND(R))	
UN No.	:
Transportation name:	: Non Regulated
Chemical name:	:
ADR Class	: Non Regulated
Packing group	: Non Regulated
Sea transport (IMDG):	
UN No.	:
Transportation name:	: Non Regulated
Chemical name:	:
ADR Class	: Non Regulated
Packing group	: Non Regulated
Air transport (ICAO/IATA):	
UN No.	:
Transportation name:	: Non Regulated
Chemical name:	:
ADR Class	: Non Regulated
Packing group	: Non Regulated

SECTION - XV REGULATORY INFORMATION	
Regulation of the government No 355/2006 Coll. on Protection of Employees Against Hazards Related to exposure to chemical factors at work as amended.	
Decree No. 284/2001 Coll. on establishing the Waste Catalogue (060204 – sodium hydroxide, wastes from inorganic chemical processes)	
Regulation (EC) No. 1907/2006 of the EP of the Council concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).	
Regulation (EC) No. 1272/2008 of the EP and of the Council concerning Classification, Labelling and Packing of Substances and Mixtures (CLP).	
Directive 67/548/EEC – Classification, packaging and labelling of substances.	
Degree of risk for water: WGK 1 – low risk for water.	
Chemical Safety assessment: Chemical safety assessment was carried out within registration of the substance pursuant to the REACH regulation.	

SECTION - XVI OTHER INFORMATION	
Full wording of R sentences and H sentences from Section 3.	
H302:	: Harmful if swallowed
H332:	: Harmful if inhaled
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Other sources of information:	
IUCLID Data Bank (European Commission - European Chemicals Bureau)	
ESIS - European Chemical Substances Information System (European Chemicals Bureau)	

ADDITIONAL INFORMATION -

Further information : None

Note:

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