



Material Safety Data Sheet


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Section 1 - Product and Company Identification

Product name : benzyl alcohol
Other names : --
Product use : Use for production of the flower oil and drugs, some of the paints, color film reagent, solvent and diluents of the epoxy curing agents.
Supplier's name : San Fu Chemical Co., Ltd., Shan Hua Plant
Supplier's address : 340 Hsiao Hsin Li, Shan Hua Town, Tainan Hsien, Taiwan, R.O.C.
Supplier's phone : 06-5837608 Emergency phone : 06-5837608
FAX. : 06-5839498

Section 2 - Hazards Identification

Classification : <ol style="list-style-type: none">1. Acute Toxicity Category 5 (ingestion)2. Acute Toxicity Category 3 (gas, vapor, smoke)3. Skin Sensitization Category 14. Hazardous to the aquatic environment III
The Most Important Hazards and effect Label element : <ul style="list-style-type: none">■ Hazard symbol : Skull and cross bones, Exclamation mark, Environmental Toxicity <div style="text-align: center;"></div> <ul style="list-style-type: none">■ Signal word : Danger
Hazard statement : <ol style="list-style-type: none">1. Harmful if swallowed2. Harmful if inhaled3. May cause skin sensitive.4. Harmful to the aquatic livings
Precautionary statement : <ol style="list-style-type: none">1. Avoid eating in the working area2. Wear proper protective clothing3. In case of accident or if you feel unwell, seek medical attention immediately.4. Should be placed orderly.
Others Hazard : --

Section 3 - Composition/Information On Ingredients

Pure substance :

Chemical name : benzenecarbinol
Synonyms : Alcohol Benzylicum · Alcohol Benzylique · Benzene methanol · Phenyl carbinol · Phenyl methanol
CAS No. : 100-51-6
Ingredient contributing to the hazard(%) : >99.5%



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Section 4 - First Aid Measures

The First-aid Information :

- Inhalation :
 1. Remove the contaminated origin or move the patient to an air-circulated place.
 2. Seek medical attention immediately
- Skin Contact :
 1. Avoid direct contact with chemicals, required impervious gloves.
 2. Flush skin with gentle warm water for at least 20 minutes immediately.
 3. Remove the contaminated clothing, shoes, and leather product while flushing.
 4. Seek medical attention immediately
 5. Take off the contaminated cloth and shoes during flushing. Must wash before throw away or reuse.
- Eye Contact :
 1. Immediately flush the contaminated eyes with water for 30 minutes, holding lids apart to ensure flushing of the entire surface.
 2. Avoid the sewage touch the unaffected eye.
 3. Seek the medical attention immediately.
- Ingestion :
 1. If patient is in conscious, use water to rinse the mouth.
 2. Ask patient to drink large amount of water.
 3. Seek the medical attention immediately.

The Most Important Symptoms and Hazardous Effects :

Protection of First-aiders :

1. Do not practice Artificial respiration by mouth.
2. Wear category C protective equipments and related equipments to avoid contact.

Notes to a Physician : --

Section 5 - Fire Fighting Measures

Extinguishing Media : Water spray, foam, powder, CO₂, sand

Specific Hazards when Fire-fight : Open flames, high heat

Specific Fire-fighting Procedure :

1. Move the container to the safety place immediately. (Fire accident nearby the containers)
2. Use water spray to cool the container and the surrounding area, if the containers could not be moved.
3. Require protective equipments.

Specific Protection of Firefighters : Fireman must wear full chemical protective clothing and self-contained breathing apparatus (SCBA). (wear aluminum mirage protecting coat if necessary)

Section 6 - Accidental Release Measures

Personal Precautions : Wear proper protective equipment while cleaning.

Environmental Precautions :

1. Process aeration before cleaning in the indoor area.
2. Do not drain the leakage into the rivers to cause the environmental effects.

Methods for Cleaning up :

1. Evacuate the staff in the contaminated area to the safety zone quickly and isolate the



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- area. Strictly no entry.
2. Cut off the source of ignition.
 3. Suggested wearing the positive pressure mode with self-contained air breathing apparatus and hazard prove clothing.
 4. Cut off the source of leakage if possible.
 5. Avoid empty to the limited space such as sewer, drainage.
 6. Small spill: Use sand, dry lime or soda ash to mix. Use large amount of water to wash. Dilute the waste water into the Wastewater Systems.
 7. Large spill: Collected by embanking surrounds or digging. Use pump to transfer waste disposal to the tank or specific collector for recycle or manage by disposal sites.

Section 7 - Handling and Storage

- Handling :
1. Operate in the confined area. Fully ventilated.
 2. Operator must undergo the professional training. Strictly follow the operating regulation.
 3. Suggested wearing air purifying gas mask (half-mask), chemical safety protective goggles, hazard free impervious suits and rubber made oil free gloves. Away from the source of the ignition and heat. No smoking in the working area.
 4. Use anti explosive ventilation system and equipments.
 5. Avoid vapor to be spilled in the airborne of the working area.
 6. Avoid contact with oxidizers.
 7. Precaution during transport. Avoid damage in container and packaging.
 8. Should have the leaking emergency equipments and appropriated Fire Equipments.
 9. Empty container may have harmful residue.
- Storage :
1. Store in a cool, dry, well ventilated place. Away from the source of the fire and heat.
 2. Separate storage with oxidizers and food chemicals.
 3. Install the related and quantity fire equipments.
 4. Should have the leaking emergency equipments and appropriated collecting material in the storage area.

Section 8 - Exposure Controls & Personal Protection

- Engineering measures :
1. Install proper ventilation equipments for aeration.
 2. Install the emergency showering and eye washer equipments.
- | Control parameters | | | |
|--------------------|------|---------|----------------------|
| TWA | STEL | Ceiling | Biological standards |
| -- | -- | -- | -- |
- Personal protective equipment :
- Respiratory Protection : If the vapor is generated, required compound air purifying respirator.
 - Hand Protection : Rubber gloves. (Polychloroprcnc)
 - Eye Protection : Chemical protective goggles and anti splash mask.
 - Skin and Body Protection : Wear protective clothing with the characteristics mentioned above and rubber boots.



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Hygiene measures :

1. Remove contaminated clothes, clean thoroughly before reuse or disposal. Must advise the danger to the laundry worker.
2. Smoking, eating and drinking are prohibited in work area.
3. Wash hands thoroughly after handling this substance.
4. Maintain a clean work environment.

Section 9 - Physical & Chemical Properties

Appearance : transparent liquid	Odor : fragrance flavor
Color : Transparent	Melting Point: -15°C
pH value : --	Boiling point/boiling range : 205°C
Flammability: --	Flash point : 101°C
Decomposition temp : --	Test method : closed cup
Auto ignition temp : 435°C	Explosion properties : lower limit : 1.3%(volume) upper limit : 13%(volume)
Vapor pressure : 0.07	Vapor density : --
Density : 1.045	Solubility : 1. The solubility in the water is 40g/l (25°C) 2. The solubility in the water is 44g/l (55°C)
log Kow : 1.10	Evaporation Rate : --

Section 10 - Stability & Reactivity Data

Stability : Stable in the normal condition.
Possible hazardous reactions under specific conditions : In the acid and the environment of dissolved iron, zinc and aluminum, the benzyl alcohol will cause multi-polymerization heating reaction and release the water.
Conditions to avoid : --
Materials to avoid : Strong oxidizer
Hazardous decomposition products : --

Section 11 - Toxicological Information

Route of exposure : Skin, inhalation, ingestion, eyes
Symptoms : ◦ Irritation, nausea, vomit, stomachache, convulsion, coma, skin sensitization.
Immediate Toxicity : <ol style="list-style-type: none">1. Skin : Irritate the skin and cause sensitization.2. Inhalation : Cause headache3. Eye : Eye irritation.4. Ingestion : Cause headache, nausea, vomit, gastrointestinal tract irritation, convulsion, coma. ● LD₅₀: 3100 mg/kg (rat 、 oral)



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- LC₅₀: 1000 mg/kg (rat ∙ inhale)

Specific effects : --

Section 12 - Ecological Information

Ecotoxicology : Impact on biodegradation process: inhibition of degradation of glucose by *Pseudomonas fluorescens* at: 350 mg/l; inhibition of degradation of glucose by *E coli* at: > 1000 mg/l

- LC₅₀(fish) : --
- EC₅₀(Aquatic Invertebrates) : --
- Bioconcentration factor (BCF) : --

Persistence and degradability : --

- Half-Life (Air) : --
- Half-Life (Water surface) : --
- Half-Life (Groundwater) : --
- Half-Life (Soil) : --

Bioaccumulative potential : --

Mobility in soil : --

Other adverse effects : --

Section 13 - Disposal Considerations

Methods of disposal :

1. Dispose the empty containers; the attachment of the inboard container must be totally eliminated.
2. To entrust the accredited waste disposal industry.

Section 14 - MSDS Transport Information

UN classification number : --

Proper D.O.T Shipping Name : --

Hazard Class : --

Packing Group : --

Marine pollution : --

Specific precautionary transport measures and conditions :

1. Check the completion of the packaging to the container before transportation. To ensure no leakage, no collapse, no falling, no damaging in the process of transportation.
2. Strictly no mix and transport with oxidizer and food chemicals.
3. The transportations must be washed and sterilized before deliver other products.
4. During shipping, the loading area should be away from bedroom and kitchen. Isolate with the cabin, power supply and source of the fire.
5. During inland transporting, should follow the regulated route.

Section 15 - Regulatory Information

Regulations :



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1. Regulations for Labor Safety and Health Installations
2. Regulations for Chemical Hazard Communication
3. Road Traffic Safety Regulations
4. Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations
5. Industrial Waste Storage and Disposal Regulations and Facility Standards

Section 16 - Other Information

Literature references	MSDS from manufacturer		
Prepared by	Suppler : San Fu Chemical Co., Ltd. Shan Hua Plant		
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Remarks	Symbols Explanations: "--" No information is available at this time. "/" Not applicable to this substance.		
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