



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.
Supplier's address : 1,Sec.1,Huanyuan E..Rd.,Liuying Dist.,Tainan, Taiwan 736.
Supplier's phone : 886-6-6231821 Emergency phone : 886-6-6231821
FAX. : 886-6-6231822

Section 2 - Hazards Identification

Classification : <ol style="list-style-type: none">1. Acutely toxic substance, ingestion (Category 4)2. Acutely toxic substances, by inhalation (Category 4)3. Acutely toxic substances, skin (category 4)4. Corrosive/irritating substances to skin (Category 3)5. Serious eye damage/irritation substances (Class 2A)
The Most Important Hazards and effect Label element : <ul style="list-style-type: none">■ Hazard symbol : Exclamation mark  <ul style="list-style-type: none">■ Signal word : Warn
Hazard statement : <ol style="list-style-type: none">1. Harmful if swallowed2. Harmful if inhaled3. Harmful in contact with skin4. Causes minor skin irritation5. Causes severe eye irritation
Precautionary statement : <ol style="list-style-type: none">1. No food is allowed in the workplace2. Wear appropriate protective clothing3. In case of contact with eyes, rinse with plenty of water and consult a doctor immediately4. Do not eat or drink when using
Others Hazard : --

Section 3 - Composition/Information On Ingredients

Pure substance :

Chemical name : benzyl alcohol
Synonyms : Alcohol Benzylicum 、 Alcohol Benzylique 、 Benzene methanol 、 Phenyl carbinol 、 Phenyl methanol



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CAS No. : 100-51-6
Ingredient contributing to the hazard(%) : >99.5%

Section 4 - First Aid Measures

<p>The First-aid Information :</p> <ul style="list-style-type: none">■ Inhalation :<ol style="list-style-type: none">1. If hazardous effects occur, move the patient to fresh air.2. If not breathing, perform artificial respiration immediately.3. If breathing is difficult, give oxygen by a trained person.4. Seek medical attention immediately.■ Skin Contact :<ol style="list-style-type: none">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 immediately5. Take off the contaminated cloth and shoes during flushing. Must wash before throw away or reuse.■ Eye Contact :<ol style="list-style-type: none">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 :<ol style="list-style-type: none">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.
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The Most Important Symptoms and Hazardous Effects :
Protection of First-aiders : <ol style="list-style-type: none">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 : <ol style="list-style-type: none">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.



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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 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
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Personal protective equipment :

- Respiratory Protection : 1. If used frequently or exposed to high concentrations, respiratory protection is required. 2. Before use, confirm the warnings and use a chemical



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filter type respirator containing an organic vapor filter, a full-body chemical filter type respirator containing an organic vapor filter, or any air-purifying full-body respirator containing an organic vapor filter. 3. For unknown concentrations or concentrations that are immediately harmful to life and health: positive pressure full-face oxygen-supply respiratory protective equipment supplemented by escape-type self-contained respiratory protective equipment, full-face self-contained respiratory protective equipment.

- Hand Protection : Wear chemical protective gloves (regardless of full contact or splash contact)

Chemical protective gloves- Solvent penetration time (minutes)

Wakayama Natural Latex -40

Yamamoto Optical YS-180-B -90

MAPA Trionic-E 194 -230

Vitoject (KCL 890) -120

Aldrich Z677698 -120

Butoject (KCL 898) -480

- Eye Protection : Chemical protective goggles and anti splash mask.
- Skin and Body Protection : Protective clothing Tychem®4000 or Tychem®6000, protective boots or chemical resistant shoe covers

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: -16~-13°C
pH value : Aqueous solution is neutral when tested with litmus paper	Boiling point/boiling range : 203~205°C
Flammability: --	Flash point : 95°C
Decomposition temp : --	Test method : closed cup
Auto ignition temp : 436°C	Explosion properties : --
Vapor pressure : 0.04mmHg@20°C	Vapor density : 3.72
Density : 1.04g/cm ³ (25°C)	Solubility : 1. The solubility in the water is 33g/l (20°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 : 1. Acid: incompatible.



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2. Oxidants (strong): need to be stored separately. If it comes into contact with an oxidant (strong) and burns, it will form toxic gases containing carbon monoxide. (ILO-WHO International Chemical Safety Cards, ICSCs) (National Center for Biotechnology Information (NCBI) PubChem)
Conditions to avoid : Avoid heat, flames, sparks and other ignition sources. (Lewis, R.J. Sr.; Hawley's Condensed Chemical Dictionary 15th Edition. John Wiley & Sons, Inc. New York, NY 2007., p. 140) Avoid contact with incompatible substances: acids, flammable substances (Lewis, R.J. Sr.; Hawley's Condensed Chemical Dictionary 15th Edition. John Wiley & Sons, Inc. New York, NY 2007., p. 140), oxidizing substances (ILO-WHO International Chemical Safety Cards, ICSCs).
Materials to avoid : Acids, combustible substances (Lewis, R.J. Sr.; Hawley's Condensed Chemical Dictionary 15th Edition. John Wiley & Sons, Inc. New York, NY 2007., p. 140), oxidizing substances (ILO-WHO International Chemical Safety Cards, ICSCs).
Hazardous decomposition products : Carbon oxides

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 : 1. Skin contact may cause redness, swelling, pain, tissue damage and temporary anemia. 2. If absorbed through the skin, it will produce the same symptoms as acute toxic inhalation. 3. May cause dermatitis.2. Inhalation : 1. May cause respiratory tract irritation and burning sensation. 2. Inhalation of high concentrations of vapor may cause breathing difficulties, dermatitis, headache, sore throat, cough, asthma, laryngitis, weakness, fatigue, hypotension, vomiting, abdominal pain, coma, and dizziness. 3. In severe cases, respiratory depression, muscle paralysis, coma, convulsions and death may occur. May have serious effects on personal health.3. Eye : It may cause blurring, redness, swelling, pain, tearing, and blurred vision of the conjunctiva and cornea of the eyes.4. Ingestion : 1. If swallowed in large quantities, this substance will cause the same symptoms as acute toxic inhalation. 2. Inhalation of vomitus into the lungs can cause chemical pneumonia.<ul style="list-style-type: none">● LD50 (test animal, absorption route): 1610 mg/kg (rat, ingestion) (Loeser, 1978), 2000 mg/kg (rabbit, skin) (NPIRI, 1974).● LC50 (test animal, absorption route): 4.178 mg/L/4 hours (rat, inhalation) (Bayer AG, 1990)● 10 mg/24 H (rabbit, skin): causes moderate irritation (Smyth et al., 1951)● Rabbit eye irritation test (OECD Guide-line 405): Causes moderate irritation (Bayer AG, 1990)
Specific effects : 1. Long-term health effects depend on exposure concentration and duration. Repeated or long-term inhalation may cause dermatitis, eye sensitivity and keratitis. 2. In a 16-day experimental test, rodents were fed 1000 mg/kg per day and experienced lethargy, bleeding from the mouth and nose, subcutaneous bleeding, urine and gastrointestinal bleeding, and some animals died.



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At a dose of about 2000 mg/kg/day, the animals died before the end of the experiment.

Section 12 - Ecological Information

Ecotoxicology : LC50(Fish): 1000 ug/L 96 hours (Lepomis macrochirus) EC50(aquatic invertebrates):-- Bioconcentration Factor: 1 (estimated)
Persistence and degradability : -- <ul style="list-style-type: none">■ 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 : <ol style="list-style-type: none">1. Dispose the empty containers; the attachment of the inboard container must be totally eliminated.2. To entrust the accredited waste disposal industry.
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Section 14 - SDS Transport Information

UN classification number : --
Proper D.O.T Shipping Name : --
Hazard Class : --
Packing Group : --
Marine pollution : --
Specific precautionary transport measures and conditions : <ol style="list-style-type: none">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 : <ol style="list-style-type: none">1. Occupational Safety and Health Act2. Regulations for the Labelling and Hazard Communication of Hazardous Chemicals3. Road Traffic Safety Regulations



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| 4. Industrial Waste Storage and Disposal Regulations |
| 5. Assessment and Classification Administration of Hazardous Chemicals |
| 6. Permissible Exposure Limits of Hazardous Substances in the Work Environment |
| 7. Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations. |

Section 16 - Other Information

Literature references	SDS from manufacturer	
Prepared by	Supplier : San Fu Chemical Co., Ltd.	
	Address : 1,Sec.1,Huanyuan E..Rd.,Liuying Dist.,Tainan, Taiwan 736.	
	Supplier's phone : 886-6-6231821	FAX : 886-6-6231822
	Name : X.Z.Lin	
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Remarks	Symbols Explanations: "--" No information is available at this time. "/" Not applicable to this substance.	
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