

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name :** BENZALDEHYDE

**Synonyms :** Benzoic aldehyde, Benzene Carboxaldehyde

**Uses :** In the Chemical, Fragrance and flavoring agent, agro chemical, Pharmaceutical

**Supplier :** Sanghvi Organics P. Ltd

Plot No. 3516

Panoli ( Gujarat)

**Telephone Number :** 02646- 272276

### 2. HAZARDS IDENTIFICATION

Pictogram



Signal word

warning

Potential Health Effects

Inhalation

May cause irritation to the respiratory tract: Coughing, sore throat, labored breathing, and chest pain. High concentration have a narcotic effect.

Ingestion

May cause sore throat, abdominal pain, nausea, central nervous system depression, convulsions, and respiratory failure, Estimated lethal dose 2 ounces.

Skin Contact

May cause irritation with redness and pain. May cause allergic skin reactions. May have a local anesthetic effect.

Eye Contact

May cause irritation, redness and pain

Chronic Exposure

Chronic exposure may cause skin effects.

H227

Combustible liquid

H302 + H312 + H332

Harmful if swallowed in contact with skin or if inhaled.

H315

Causes skin irritation.

H315+ H320

Causes skin and eye irritation.

H317	May cause an allergic skin reaction.
H319	Causes serious irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
<b>Precautionary Statement</b>	
<b>Prevention</b>	
P210	Keep away from heat/sparks/open flames/hot surface. No smoking.
P261	Avoid breathing mist or vapor.
P264	wash thoroughly after handling.
P270	do not eat, drink or smoke when using this product.
P271	use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	avoid release to the environment.
P280	Wear protective gloves/protective clothing.
<b>Response</b>	
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire : Use appropriate media to extinguish.
P391	Collect spillage.
<b>Storage</b>	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
<b>Disposal</b>	
P501	Dispose of contents/container in accordance with local/regional/national/International regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>7</sub>H<sub>6</sub>O  
Molecular weight : 106.12g/mol

Components	CAS Number	Concentration	Hazard Codes
Benzyl Alcohol	100-52-7	100%	H227,302,401

### 4. FIRST AID MEASURES

If inhaled

Remove victim from area of exposure. Avoid becoming a casualty, remove contaminated clothing and loosen remaining clothing Allow patient to assume most comfortable position and keep warm. Seek medical advice if effects persist

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion

Rinse mouth with water. If swallowed, give a glass of water to drink. Do not induce vomiting. Seek immediate medical assistance.

### 5. FIRE FIGHTING MEASURES

Fire

Flash Point 64°C

Auto ignition Temperature 192°C(378F)

Flammable limits in air% by volume: Iel: 1.4 Coumbstible

Specific hazards arising from the substance or mixture

Combustible liquid

Precautions for fire fighters and special protective equipment.

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

Suitable extinguishing media

Normal foam, dry agent(Carbon dioxide, dry chemical powder)

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.

Environmental precaution

Prevent further leakage or spillage if safe to do so. Do not let product enter drains, Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Soak up with inert absorbent materials ( soil, sand or other inert material)and dispose of as hazardous waste. Keep in suitable closed containers for disposal.

## 7. HANDLING AND STORAGE

Conditions for safe storage

Store in a cool, dry, well ventilated place and out of direct sunlight & ignition. Store away from incompatible materials . store away from sources of heat or ignition. Store under nitrogen. Keep containers closed when not in use.

Precautions for safe handling

Avoid skin and eye contact and breathing in vapour. Take precautionary measures against static discharges.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:**

Use in well ventilated areas. If inhalation risk exists. Use with local exhaust ventilation or while wearing organic vapour respirator. Vapour heavier than air prevent concentration in hollows or sumps. Do not enter confined spaces where vapour may have collected. keep containers closed when not in use.

**Personal Protective Equipment:**

The selection of PPE is dependant 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.

Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. Always wash hands before smoking ,eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Colour	:	Colourless to Yellowish
Odour	:	Bitter Almond
Odour Threshold	:	0.045 ppm
Solubility	:	immiscible with water
Specific Gravity	:	1.043
Relative Vapor density	:	3.65
Vapour Pressure(20°C)	:	0.1kpa
Flash Point (°C)	:	63.9
Autoignition Temperature	:	192
Solubility in water(g/l)	:	40@ 20°C
Boiling point	:	178°C
Freezing Point	:	-56

## 10. STABILITY AND REACTIVITY

Reactivity	:	Oxidise readily by air to benzoic acid.
Chemical stability	:	Stable under normal condition of use.
Conditions to avoid	:	Avoid exposure to heat, light, sources of ignition, and open flame. Avoid Exposure to air.
Incompatible materials	:	Incompatible with strong oxidizing agents, aluminium, and iron, bronze, oxygen alkali metals.
Hazardous decomposition	:	Oxides of carbon, Peroxides, Benzoic acid

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms of effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion	:	Swallowing can result in nausea. Vomiting, diarrhea, and abdominal pain.
Eye contact	:	May be an eye irritant.
Inhalation	:	Breathing in vapour can result in headaches, dizziness, drowsiness, and Possible nausea. Inhalation of concentrated vapours may irritate the nose and Throat and may produce central nervous system depression with possible Respiratory failure.
Toxicological Data	:	Oral LD50 (rat) : 1300mg/kg

Dermal LD50(rabbit):1250mg/kg

## 12. ECOLOGICAL INFORMATION

Ecotoxicity : Avoid contaminating waterways

## 13. DISPOSAL CONSIDERATIONS

Disposal methods : Dispose of material offer surplus and non-recyclable solutions to a licensed Disposal company.

## 14. Transport information

Road and Rail Transport, Marine Transport, Air Transport

Classified as dangerous Goods for transport by Road and Rail.

UN No 1990

Transport Hazard Class 9

Packing Group III

## 15. REGULATORY INFORMATION

Hazard Category : Xn: Harmful

Risk Phrase(s) : R20/22 : Harmful by inhalation and if swallowed.

Safety Phrase(S) : S24/25: Avoid contact with skin and eyes

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and Seek medical advice.

S37/39: Wear suitable gloves and eye/face protection

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S45: In case of accident or if you feel unwell, seek medical advice immediately.

## 16 OTHER INFORMATION

NFPA Hazard ID



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(Promoted by Govt. of Gujarat)

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Health Hazard 2

Fire Hazard 2

Reactivity Hazard 0

Hazard rating : 0- Minimal; 1 – Slight; 2- Moderate ; 3 – Serious ;4 - Severe

This SDS summarises to our best knowledge , The Chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace.

