



MATERIALS SAFETY DATA SHEET (MSDS) Benzoic Acid (C₆H₅COOH)	MSDS Number:	
	Version number:	
	Date issued:	
	Page No:	

1. Product Identification

Chemical Name	Benzoic Acid
CAS No	65-85-0

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Supplier	
E-Mail	
Contact Person	
Emergency Telephone	

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2. Hazard(s) identification

Classification

Serious eye damage	category 1
Specific target organ toxicity following repeated exposure	category 1
Skin irritation	category 2

Hazards not otherwise classified (HNOC) - Combustible Dust

Hazard pictogram(s)/Symbols



Signal word	Danger
Hazard statements	<p>Causes skin irritation</p> <p>Causes serious eye damage</p> <p>Causes damage to organs through prolonged or repeated exposure</p>
Precautionary statements:	<p>If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray Wash ... thoroughly after handling Do not eat, drink or smoke when using this product.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p>IF ON SKIN: Wash with soap and water Take off contaminated clothing and wash before reuse If skin irritation occurs: Get medical advice/attention Immediately call a POISON CENTER or doctor.</p>
Combustible Dust Hazard	May form combustible dust concentrations in air (during processing).

3. Composition and ingredient information

Chemical name	CAS number	%
Chloroform	67-66-3 Entity 1 Made by India	99.9

4. First-aid measures

Inhalation	Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.
Skin contact	Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.
Eye contact	Protect unexposed eye. Remove contact lens(es) if able to do so during rinsing. Rinse or flush eye gently with water for at least 30 minutes, lifting upper and lower lids. Seek immediate medical attention (ophthalmologist)
Swallowing	Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.



Most important symptoms and effects, both acute and delayed	Irritation, Nausea, Headache, Shortness of breath. Diarrhea. Vomiting. Irritation/burns, all routes of exposure. May cause permanent eye injury.; Prolonged or repeated skin contact may cause dermatitis.
Indication of any immediate medical attention and special treatment needed	If seeking medical attention, provide SDS document to physician.

5. Fire-fighting measures

Suitable extinguishing media	co-ordinate firefighting measures to the fire surroundings water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder.
Unsuitable extinguishing media	Water jet
Special hazards arising from the substance or mixture	Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.
Hazardous combustion products	In case of fire may be liberated: Carbon monoxide (CO) and Carbon dioxide (CO ₂)
Advice for firefighters	In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and storage

Precautions for safe handling	Provision of sufficient ventilation. Avoid dust formation.
Measures to prevent fire as well as aerosol and dust generation	Removal of dust deposits.



Advice on general occupational hygiene	Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.
Conditions for safe storage, including any incompatibilities	Store in a dry place.
	Incompatible substances or mixtures: Observe hints for combined storage.
	Consideration of other advice: Ventilation requirements Use local and general ventilation.
	Specific designs for storage rooms or vessels: Recommended storage temperature: 15 – 25 °C
Specific end use(s)	No information available.

8. Exposure Controls/ Personal Protection

Control parameters

Ingredient name	Exposure limits
Benzoic Acid	OSHA PEL TWA (Total Dust) 15 mg/m ³ (50 mppcf*) ACGIH TLV TWA (inhalable particles) 10 mg/m ³

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Appropriate Engineering controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a fume hood. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Respiratory protection:	Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. Not required under normal conditions of use with adequate ventilation.



Protection of skin	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eye protection	Safety glasses with side shields or goggles.
General hygienic measures	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

9. Physical and chemical properties

Appearance	Clear, colourless liquid
Odor	Odourless
Solubility in Water	Infinite
Specific Gravity	Approximately 1
pH	Not Available
Boiling Point(°C)	Approximately 100
Melting Point(°C)	Approximately 0
Vapor Pressure	Not Applicable.

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10. Stability and reactivity

Reactivity	The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.
Chemical stability	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous reactions	Violent reaction with: Strong oxidiser, Fluorine, Nitrites, Reducing agents, Oxygen, Strong alkali.
Conditions to avoid	There are no specific conditions known which have to be avoided.
Incompatible materials	There is no additional information



11. Toxicological information

Acute Toxicity:

Oral	1700 mg/kg	Oral LD50 Rat
Inhalation	> 12.2 mg/l	LC50 Inhalation - rat - 4 h
Dermal	> 10,000 mg/kg	LD50 Dermal - rabbit
Chronic Toxicity	No additional information.	
Corrosion Irritation		
Dermal	Section 2	Classified as Skin Irritant
Ocular	Section 2	Classified as Serious Eye Damage
Sensitization	No additional information.	
Single Target Organ (STOT)	Classified as STOTRE 1	
Numerical Measures	No additional information.	
Carcinogenicity	No additional information.	
Mutagenicity	No additional information.	
Reproductive Toxicity	No additional information.	

12. Ecological information

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Ecotoxicity

Water Flea	48 Hr EC50 Daphnia magna: 860 mg/L [Static]
Fish	Mosquito Fish: LC50 = 180 mg/L; 96 Hr;
Unspecified Bacteria	Phytobacterium phosphoreum: EC50 = 16.9 mg/L; 96 Hr; Microtox test @ 15°C
Persistence and degradability	Readily degradable in the environment. If released on land, benzoic acid should leach into the ground due to its low soil adsorption and biodegrade (half-life <1 wk). If released in water, benzoic acid should also readily biodegrade (half-life 0.2-3.6 days).
Mobility in soil	Adsorption to sediment and volatilization should not be significant.



13. Disposal considerations

Waste disposal recommendations	Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.
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14. Transport information

UN number or ID number	Not subject to transport regulations
UN proper shipping name	Not assigned
Transport hazard class(es)	None
Packing group	Not assigned
Environmental hazards	Non-environmentally hazardous acc. to the dangerous goods regulations
Special precautions for user	There is no additional information.
Maritime transport in bulk according to IMO instruments	The cargo is not intended to be carried in bulk.

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15. Regulatory information

OSHA Status	The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)	Not listed
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Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)	Not listed
Regulation on substances that deplete the ozone layer (ODS)	Not listed
Regulation concerning the export and import of hazardous chemicals (PIC)	Not listed

16. Any other relevant information

History

Product name	
Product code	
Date of printing	
Date of issue/Date of revision	
Date of previous issue	
Version	
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17. Change Details