

SAFETY DATA SHEET

BENZOIC ACID

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	65-85-0
EC number:	200-816-3
1.2 SYNONYMS:	• Benzenecarboxylic acid • Phenylcarboxylic acid • Carboxybenzene • Benzoate acid • Carboxyphenyl

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008: Acute Toxicity (oral) (Category 4) Skin Irritation (Category 2) Serious Eye Damage/Eye Irritation (Category 1) Specific Target Organ Toxicity (Repeated Exposure) (Category 1) Specific Target Organ Toxicity (single Exposure) (Respiratory tract irritation)(category 3)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H302: Harmful if swallowed H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation. H372: Causes damage to organs through prolonged or repeated exposure if inhaled: Lungs

Precautionary Statements:

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

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.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P362+P364: Take off contaminated clothing and wash it before reuse.

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P314: Get medical advice/attention if you feel unwell.

P330: Rinse mouth.

P321: Specific treatment (Reference to supplemental Safety Data Sheets.)

P302+P352: IF ON SKIN: Wash with plenty of water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container in accordance with /national/international regulations

2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and difficult breathing.
Ingestion:	May cause severe gastrointestinal irritation, nausea, vomiting, and abdominal pain.
Skin Contact:	an cause severe burns, irritation, and allergic reactions,
Eye contact:	May cause irritation, redness, pain and burning sensation.
Chronic Exposure:	may lead to respiratory issues, including chronic irritation of the airways, and prolonged skin contact can cause dermatitis or sensitization in some individuals. repeated inhalation or dermal exposure could potentially cause kidney or liver damage
Aggravation of pre-existing conditions :	may aggravate pre-existing conditions such as asthma or COPD, respiratory disorders, and skin conditions like eczema or dermatitis.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 65-85-0 BENZOIC ACID
Identification number(s):	EC number: 200-816-3

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
After skin contact:	Wash with soap and water. Consult a physician.

After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. consult a physician.
After swallowing:	Never give anything by mouth to an unconscious person. If large quantities swallowed, Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device .
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and material for containment and cleaning up:

Wore chemical protection suit and self-contained breathing apparatus (SCBA). Collect spilled into container and absorb with sand, earth or inert substances. Pick up and arrange disposal without creating dust. Keep containers tightly sealed. Do not allow water into the container ban chemical exposure. Spray water to reduce vapours. Ventilate the area and wash clean the area spilled material contained closed.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Avoid formation of dust and aerosols. Avoid contact with skin and eyes. Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.

7.2 Conditions for safe storage, including any incompatibilities:

Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.

Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Solid
Colour:	White
Odour:	Odourless or with a slight benzaldehyde odor
pH-value:	2.8
Melting point/Melting range:	122.4°C
Boiling point/Boiling range:	249.2°C
Flammability (solid, gaseous):	non flammable
Ignition temperature:	450°C (approx.)
Decomposition temperature:	>300°C
Self-igniting:	Not applicable
Flash point:	No data available
Danger of explosion:	Not applicable
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	0.000936 hPa at 25°C
Density at 20 °C:	1.34 g/cm ³ (approx.)
Relative density:	1.32
Vapour density:	5.5
Evaporation rate:	No data available
Solubility in / Miscibility with- water at 20 °C:	2.93/l
Partition coefficient:(n- octanol/water)	1.88
Viscosity:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	No data available
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Strong oxidizing agents, Strong bases, Strong reducing agents
10.6 Hazardous decomposition products	No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat) : 2565 mg/kg LD50 (Dermal, Rabbit) : 2000mg/kg LC50 (Inhalation Rat) : 12.2 mg/m ³ 4 hours
Skin corrosion/Irritation:	Skin - rabbit - Mild skin irritation - 24 h – Draize test.
Serious eye damage/irritation:	Eyes - rabbit - Risk of serious damage to eyes.
Respiratory damage/irritation:	may cause respiratory irritation
Ingestion:	May be harmful if swallowed
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No effects were found.
Specific target organ toxicity - single exposure:	Inhalation - May cause respiratory irritation. - Lungs
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50 (Gambusia affinis): 180mg/l- 96hr EC50 (scenedesmus quadricauda): 10mg/l- 14d
12.2 Persistence and degradability:	No data available
12.3 Bioaccumulative potential:	Leuciscus idus (Golden orfe) - 3 d - 50 µ Bioconcentration factor (BCF): 5,3
12.4 Mobility in soil:	No data available
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, sodium bicarbonate, sodium hydroxide, soapy water.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	Not applicable
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Not applicable
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Not applicable
14.4 Packing group · ADR, IMDG, IATA:	Not applicable
14.5 Environmental hazards:	No data available
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified under listed substances
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume

Multichem Specialities Pvt. Ltd.
1215, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 2243432121
E: multichem@multichemindia.com
www.multichemindia.com



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