

# SAFETY DATA SHEET

## BENZOIC ACID

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

<b>1.1 Product identifier:</b>	
<b>CAS Number:</b>	65-85-0
<b>EC number:</b>	200-816-3
<b>1.2 SYNONYMS:</b>	<ul style="list-style-type: none"><li>• Benzenecarboxylic acid</li><li>• Phenylcarboxylic acid</li><li>• Carboxybenzene</li><li>• Benzoate acid</li><li>• Carboxyphenyl</li></ul>

### SECTION 2: Hazards identification:

<b>2.1 Classification of the substance or mixture:</b>	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
<b>2.2 Label elements:</b>	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)
<b>Hazard Pictograms:</b>	
<b>Signal Word:</b>	Danger
<b>Hazard statements:</b>	<b>H302:</b> Harmful if swallowed <b>H315:</b> Causes skin irritation. <b>H318:</b> Causes serious eye damage. <b>H335:</b> May cause respiratory irritation. <b>H372:</b> 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

<b>2.3 Other hazards:</b>	
<b>Inhalation:</b>	can cause respiratory irritation, coughing, and difficult breathing.
<b>Ingestion:</b>	May cause severe gastrointestinal irritation, nausea, vomiting, and abdominal pain.
<b>Skin Contact:</b>	an cause severe burns, irritation, and allergic reactions,
<b>Eye contact:</b>	May cause irritation, redness, pain and burning sensation.
<b>Chronic Exposure:</b>	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
<b>Aggravation of pre-existing conditions :</b>	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

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

### SECTION 4: First aid measures

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

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

## SECTION 5: Firefighting measures

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

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	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.
<b>6.2 Environmental precautions:</b>	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.

<b>Requirements to be met by storerooms and receptacles:</b>	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.
<b>7.3 Specific end uses:</b>	no data available

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	
<b>Additional information about design of technical facilities:</b>	A system of local and general exhaust is recommended
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment:</b>	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
<b>General protective and hygienic measures:</b>	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	<b>Respiratory protection:</b> Required.
<b>Protection of hands:</b>	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
	<b>Eye protection:</b> Required
<b>Protection of Body:</b>	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

## SECTION 9: Physical and chemical properties

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

## SECTION 10: Stability and reactivity

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

## SECTION 11: Toxicological information

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

## SECTION 12: Ecological information

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

## SECTION 13: Disposal considerations

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

## SECTION 14: Transport information

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

## SECTION 15: Regulatory information

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

## 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

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