# SAFETY DATA SHEET

## BENZILIC ACID FOR SYNTHESIS

**MSDS CAS: 007601-90-3**

<table>
<thead>
<tr>
<th>Page</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revised edition no</td>
<td>0</td>
</tr>
<tr>
<td>Date</td>
<td>25 / 10 / 2012</td>
</tr>
<tr>
<td>Supersedes</td>
<td>0 / 0 / 0</td>
</tr>
</tbody>
</table>

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**: BENZILIC ACID FOR SYNTHESIS  
**Product code**: 01840

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use**: Industrial. For professional use only.

### 1.3. Details of the supplier of the safety data sheet

**Company identification**: LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai INDIA  
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com  
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

### 1.4. Emergency telephone number

**Phone nr**: + 91 22 6663 6663 (9:00am - 6:00 pm) [Office hours]

## 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

**Classification EC 67/548 or EC 1999/45**

**Classification**: Xn; R22

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards**: Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -  
Category 3 - Warning (CLP : STOT SE 3) H335  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319  
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

### 2.2. Label elements

**Labelling EC 67/548 or EC 1999/45**

**Symbol(s)**: ❌
2. Hazards identification -DSD (continued)

Symbol(s) : Xn : Harmful
R Phrase(s) : R22 : Harmful if swallowed.
S Phrase(s) : S36 : Wear suitable protective clothing.
Contains : Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

Labelling Regulation EC 1272/2008 (CLP)

Signal words : Warning
Hazard statements : H319 : Causes serious eye irritation.
H315 : Causes skin irritation.
H335 : May cause respiratory irritation.

Precautionary statements
• Prevention : P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
P264: Wash thoroughly after handling.
• Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P332+P313: If skin irritation occurs : Get medical advice.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P363: Wash contaminated clothing before reuse.
• Storage : P403+P233: Store in well-ventilated place. Keep container tightly closed.
P405: Store locked up.
• Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Contains : Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance / Preparation</th>
<th>Preparation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance name</td>
<td>Contents</td>
</tr>
<tr>
<td>Pentasodium (carboxylatomethyl) iminobis(ethylenenitrilo) tetraacetate</td>
<td>583-61-9</td>
</tr>
</tbody>
</table>
3. Composition/information on ingredients (continued)

4. First aid measures

4.1. Description of first aid measures

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin contact: Get medical advice. Specific treatment (see on this label). Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation occurs:

Eye contact: Get medical advice. If eye irritation persists: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Ingestion: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel: Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling: Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

Technical protective measures: Provide good ventilation in process area to prevent formation of vapour.

Special precautions: Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.


7.3. Specific end use(s)

Specific end use(s): None.

8. Exposure controls/personal protection

8.1. Exposure controls
8. Exposure controls/personal protection (continued)

Personal protection: Avoid all unnecessary exposure.
• Respiratory protection: Wear approved mask.
• Hand protection: Wear protective gloves.
• Skin protection: Wear suitable protective clothing.
• Eye protection: Chemical goggles or safety glasses.
• Others: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits: No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state at 20 °C</td>
<td>Solid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Off white powder</td>
</tr>
<tr>
<td>Odour</td>
<td>N/A</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>pH value</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting point [°C]</td>
<td>149 - 151 °C</td>
</tr>
<tr>
<td>Decomposition point [°C]</td>
<td>N/A</td>
</tr>
<tr>
<td>Critical temperature [°C]</td>
<td>N/A</td>
</tr>
<tr>
<td>Auto-ignition temperature [°C]</td>
<td>N/A</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash point [°C]</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling point [°C]</td>
<td>180°C</td>
</tr>
<tr>
<td>Initial boiling point [°C]</td>
<td>N/A</td>
</tr>
<tr>
<td>Final boiling point [°C]</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour pressure [20°C]</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour pressure mm/Hg</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour density</td>
<td>N/A</td>
</tr>
<tr>
<td>Density [g/cm3]</td>
<td>N/A</td>
</tr>
<tr>
<td>Relative density, gas (air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Relative density, liquid (water=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in water [% weight]</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>N/A</td>
</tr>
<tr>
<td>Log Pow octanol / water at 20°C</td>
<td>No data available.</td>
</tr>
</tbody>
</table>
9. Physical and chemical properties (continued)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity at 40°C [mm²/s]</td>
<td>N/A</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive properties</td>
<td>N/A</td>
</tr>
<tr>
<td>Explosion limits - upper [%]</td>
<td>N/A</td>
</tr>
<tr>
<td>Explosion limits - lower [%]</td>
<td>N/A</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

10.1. Reactivity

Reactivity: Not established.

10.2. Chemical stability

Chemical stability: Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Not established.

10.4. Conditions to avoid

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong bases.

10.6. Hazardous decomposition products


11. Toxicological information

11.1. Information on toxicological effects

Toxicity information: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
11. Toxicological information (continued)

- **Inhalation**: Based on available data, the classification criteria are not met.
- **Dermal**: Based on available data, the classification criteria are not met.
- **Ingestion**: Based on available data, the classification criteria are not met.
- **Corrosion**: Based on available data, the classification criteria are not met.
- **Irritation**: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
- **Sensitization**: Based on available data, the classification criteria are not met.
- **Mutagenicity**: Based on available data, the classification criteria are not met.
- **Carcinogenicity**: Based on available data, the classification criteria are not met.
- **Toxic for reproduction**: Based on available data, the classification criteria are not met.
- **STOT-single exposure**: Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**: Based on available data, the classification criteria are not met.
- **Aspiration hazard**: Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

**Toxicity information**: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

12.2. Persistence - degradability

**Persistence - degradability**: Biodegradable.

12.3. Bioaccumulative potential

**Bioaccumulative potential**: Not established.

12.4. Mobility in soil

**Mobility in soil**: Not established.

12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

**Environmental precautions**: Avoid release to the environment.
13. Disposal considerations

13.1. Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

14.1. Land transport (ADR-RID)

General information: Not regulated.

14.2. Sea transport (IMDG) [English only]

General information: Not regulated.

14.3. Air transport (ICAO-IATA) [English only]

General information: Not regulated.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture: Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

16. Other information

Revision: Revision - See: *

Abbreviations and acronyms:
- PBT: persistent, bioaccumulative and toxic.
- vPvB: very persistent and very bioaccumulative.

Sources of key data used:
16. Other information (continued)

List of relevant R phrases (heading 3):
- R10: Flammable.
- R22: Harmful if swallowed.
- R37/38: Irritating to respiratory system and skin.
- R41: Risk of serious damage to eyes.

List of full text of H-statements in section 3:
- H228: Flammable solid.
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.

Further information: None.

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

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