

BENZOIN

1. Identification of the substance / Preparation and Company

1.1 Commercial Product Name: BENZOIN

1.2 Company undertaking identification

Manufacturer: **Longchem C & S International Corp.**

Identification of the company:

**No.46, Dou-Kung 2 Rd, Dou-Liu City,
Yun-Lin Hsien, 64069 Taiwan, R.O.C.
Telephone number: 886-5-557-4403**

2. Hazardous Identification

Classification system

GHS ratings

Acute toxicity(oral)	5
Hazard for substances hazardous to the environment	3

3. Composition/Information on Ingredient

3.1 Chemistry name: 2-Hydroxy-1,2-diphenylethanone 100%

3.2 CAS. No. :119-53-9

3.3 EINECS No. : 204-331-3

4. First Aid Measures

4.1 Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

4.2 Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

5. Fire Fighting Measures

5.1 General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) , and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.2 Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

5.3 Autoignition Temperature: Not available.

5.4 Flash Point: Not available.

5.5 NFPA Rating: Not published.

- 5.6 Explosion Limits, Lower: Not available.
Upper: Not available.

6. Accidental Release Measures

- 6.1 General Information: Use proper personal protective equipment as indicated in Section 8 (Exposure control/personal protection).
6.2 Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, and then place into a suitable container for disposal.

7. Handling and Storage

- 7.1 Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
7.2 Storage: Store in a cool, dry place. Keep container closed when not in use.

8. Exposure Controls / Personal Protection

- 8.1 Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.
8.2 OSHA Vacated PELs :
Benzoin – No OSHA Vacated PELs are listed for this chemical.
8.3 Personal Protective Equipment:
Eyes- Wear safety glasses and chemical goggles if splashing is possible.
Skin – Wear appropriate protective gloves and clothing to prevent skin exposure.
Clothing – Wear appropriate protective clothing to minimize contact with skin.
Respirators – Wear a NIOSH/MSHA-approved (or equivalent) full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

9. Physical / Chemical Properties

- 9.1 Appearance : Off-white to white crystalline powder
9.2 Odor: Camphor-like.
9.3 Boiling point/range: 334°C
9.4 Melting point/range: 133-137°C
9.5 PH: Not applicable
9.6 Solubility in water: 28 mg/l
9.7 Solubility in other ingredients : Dimethylformamide, chloroform, acetone, acetic acid.
(Slightly soluble in methanol.)
9.8 Partition coefficient : Low Pow= 2.13
9.9 Conductivity: Specific resistance: 8.10^{13} Ohm.m
9.10 Vapour pressure: 1.3 hPa (136°C)
9.11 Vapour density (air=1): 7.4
9.12 Flash point: 128°C

- 9.13 Autoignition temperature : 460°C (dust-cloud)
9.14 Flammability : Combustible.
9.15 Explosion properties : Finely dispersed particles are sensitive to explosion.
9.16 Dust explosion class 2.
9.17 Lower explosion limit : Information not available
9.18 Upper explosion limit : Information not available
9.19 Min. ignition energy : < 1.8 mj= highly ignition susceptible.
9.20 Oxidation properties : Information not available

10. Stability and Reactivity

- 10.1 Hazardous Polymerization: Has not been reported.

11. Toxicological Information

- 11.1 LD₅₀ (Oral, rat): > 5,000 mg /Kg

12. Ecological Information

- 12.1 Ecotoxicity: Harmful to aquatic life with long lasting effects.
12.2 Mobility: Vapour pressure at room temperature is low; Log Pow =2.13; Solubility in water= 28 mg/l.
12.3 Persistence/degradability: The substance is readily biodegradable.
12.4 Bioaccumulative potential: Bioaccumulation in aquatic organisms is not expected.
12.5 Ecotoxicity: 96h LC50 fish: 10-100 mg/l.
48h EC50 Daphnia magna: 10-100 mg/l.
72h IC50 algae: 10-100 mg/l.
Water pollutant.

13. Disposal Considerations

- 13.1 Dispose of in a manner consistent with federal, state, and local regulations.
13.2 Not listed as a material banned from land disposal according to RCRA.

14. Transport Information

Proper Shipping Name: None

- 14.1 ICAO/IATA (air transport): Not regulated and restricted.
Prevent from falling, dropping and damage.
14.2 IMDG (maritime transport): Not regulated and restricted.
14.3 ADR/RID (land transport): Not regulated and restricted.

15. Regulatory Information

H-CODES	H320	Causes eye irritation
	H412	Harmful to aquatic life with long lasting effects.

P-CODES	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P273	Avoid release to the environment.

15.1 TSCA Inventory Status: Yes

15.2 The new classification and labelling system according to CLP regulation (EC) No 1272/2008

16. Others

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) in terms of the legal warranty regulations.