

HARDENER MH-500

1. Identification of the substance / Preparation and Company

1.1 Commercial Product Name: HARDENER MH-500

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

Hazard symbol: warning

Classification system

GHS ratings

Acute toxicity(oral)	5
Toxic to aquatic organisms	Aquatic Chronic 3

3. Composition/Information on Ingredient

3.1 Chemical characterization:

Chemical name	CAS-No.	Hazard symbol[s]	Concentration [%]
1,2,4,5-Benzenetetracarboxylic acid,compound with 4,5-dihydro-2-phenyl-1H-imidazole (1:1)	54553-90-1	N/A	100%

4. First Aid Measures

Immediately remove contaminated clothing.

4.1 After inhalation: In case of over exposure to dust, remove victim to fresh air and give CPR/oxygen if needed. If necessary seek medical advice.

4.2 After contact with the skin: Wash with soap and water. If necessary seek medical advice.

- 4.3 After contact with the eyes: Flush with plenty of water for 15 minutes. If necessary seek medical advice.
- 4.4 After ingestion: seek medical advice. If necessary seek medical advice.

5. Fire Fighting Measures

- 5.1 Fire-fighting media: water spray, foam, carbon dioxide or dry chemical.
- 5.2 Burning will produce toxic fumes (nitrogen oxide NO_x). Wear self-contained breathing apparatus and full-out gear to fight fires.
- 5.3 If dust develops, explosive dust/air mixture may form.

6. Accidental Release Measures

- 6.1 Personal precautions:
Prevent the formation of dust. Keep away from sources of ignition – No smoking.
- 6.2 Environment precautions:
Avoid release to the environment. Prevent the product entering sewers, watercourses or soil.
- 6.3 Method for cleaning up:
Take up mechanically. Fill into marked, seal able containers and dispose according to point 13

7. Handling and Storage

- 7.1 Caution! Concentrated dust may present explosion hazard.
- 7.2 Handling
Avoid eye and skin contact.
Prevent dust formation.
Provide adequate protection equipment against explosion.
- 7.3 Storage
Store in tightly closed containers.
Protect against static charge.
Keep away from sources of ignition.

8. Exposure Controls / Personal Protection

- 8.1 Technical measures: In case of dust being formed, provides for adequate extraction.
- 8.2 Ventilation: Recommended.
- 8.3 Respiratory protection: In case of dusts be formed
- 8.4 Ingredients with limiting values to be controlled:
TLV (Trgs 900/D) 6 mg/m³ (exposure limit for dust)

- 8.5 Hand protection: Impermeable gloves to minimize skin contact
- 8.6 Eye protection: Chemical goggles
- 8.7 Other protection equipment: Eye wash fountain, safety shower. Wash contaminated clothing before re-use

9. Physical / Chemical Properties

- 9.1 Appearance: White to off-white powder
- 9.2 Colour: white
- 9.3 Odour: odourless
- 9.4 Sense of Smell Valve :—
- 9.5 pH value: 2.9~ 3.2 (3 g/l water @20°C)
- 9.6 Melting point: 210 ~ 230°C
- 9.7 Boiling point: not applicable
- 9.8 Flammability(Solid,Gas) : —
- 9.9 Decomposition Temperature : —
- 9.10 Flash point: >200°C
- 9.11 Autoignition Temperature : —
- 9.12 Explosion Limits : —
- 9.13 Vapour Pressure : Approx. 1.5
- 9.14 Specific gravity: Approx. 1.54 ~1.58g/cm³ @ 20°C
- 9.15 Bulk density: Approx. 480 kg/m³
- 9.16 Solubility: 3 g/litter water @ 20°C
- 9.17 Log Kow : —
- 9.18 Volatility Speed : —

10. Stability and Reactivity

- 10.1 Stability: stable
- 10.2 Incompatibility: reducing agents
- 10.3 Hazardous Decomposition: Burning will produce toxic fumes, carbon oxide, and carbon dioxide. Thermal decomposition temp. is approx. 225°C.
- 10.4 Hazardous Polymerisation: will not occur.

11. Toxicological Information

- 11.1 LD 50 (oral, rat): 7400 mg/Kg
- 11.2 Skin: slightly irritating
- 11.3 Eyes: not irritating

12. Ecological Information

12.1 Information about elimination (persistence and degradability) Biodegradability: 54%

12.2 Effects connected to the aquatic toxicity:

Fish toxicity	LC50 Brachydanio ratio: > 1,000 mg/l/96h
Daphnia toxicity	EC50 Daphnia magna: 125 mg/l/48h
Algae toxicity	EC50 scenedesmus subspicatus: 9mg/l/72h
Bacteria toxicity	EC10 Pseudomonas putida: 110 mg/l/16h

12.3 Effects connected to the toxicity on animals:

LC50 Eisenia foetida: >1,000 mg/kg/14 days

13. Disposal Considerations

13.1 Observe local/national by-laws.

14. Transport Information

Proper Shipping Name: None

14.1 This product is not dangerous goods in IMDG (sea transport) Status and ICAO (air transport) Status. Prevent from falling, dropping and damage.

14.2 ADR/RID (land transport): Not regulated and restricted.

15. Regulatory Information

H-CODES	H302	Harmful if swallowed.
	H412	Harmful to aquatic life with long lasting effects.
P-CODES	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment.

15.1 TSCA Inventory Status: Yes

15.2 All components of this product are listed on the Globally Harmonized System of the Classification and Labelling of Chemicals, (GHS)

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.