



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

ADD: NO.52 PUCHANG ROAD, PUZHOU INDUSTRIAL PARK, LONGWAN DISTRICT,
WENZHOU ZHEJIANG P.R. CHINA

Tel: +86-577-88905587

Fax: +86-577-88905567

Email: info@rayfull.com

sales@rayfull.com

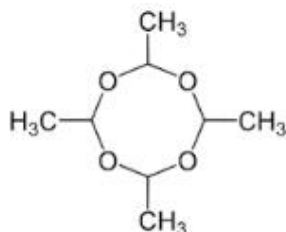
1. Chemical Product Identification

Product Name: Metaldehyde 99% TC

Molecular Formula: C₈H₁₆O₄

Molecular Weight: 176.21 g/mol

Structural Formula:



Chemical Name: 2,4,6,8-tetramethyl-1,3,5,7-tetraoxocyclooctane

Form: crystal

Color: white

CAS No.: 108-62-3

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Metaldehyde	108-62-3	99%
Other ingredients	-----	1%

3. Hazards Identification

Flammable. Harmful if swallowed.



Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Harmful if swallowed.

Inhalation: May cause respiratory tract irritation.

Chronic: Not available.

4. First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

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

Ingestion: Do NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water, and seek medical advice.

Inhalation: Remove from exposure to fresh air immediately.

Notes to Physician: Treat symptomatically and supportively.

5. Fire-Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water Reactive. Material will react with water and may release a flammable and/or toxic gas.

Extinguishing Media: Do NOT use water directly on fire. In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature: 580 deg C (1,076.00 deg F)

Flash Point: 50 deg C (122.00 deg F)

NFPA Rating: Not published.

Explosion Limits, Lower: Not available.

Upper: Not available.

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Remove all sources of ignition. Use a spark-proof tool.



7. Handling And Storage

Handing: Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

8. Exposure Controls/Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment:

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

9. Physical and Chemical Properties

Appearance: White crystal

Odor: Not available

pH: Not available

Vapor Pressure: 1.3 mbar @ 28.5 deg C

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 246 deg C

Decomposition Temperature: Not available

Solubility: 0.02 w/w % (20 c)

Specific Gravity/Density: Not available

Molecular Weight: 176.21 g/mol

10. Stability and Reactivity

Chemical Stability: Not available.

Conditions to Avoid: Ignition sources.

Incompatibilities with Other Materials: Not available.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.



Hazardous Polymerization: Has not been reported.

11. Toxicological Information

Acute oral LD₅₀ for rats is 283 mg/kg.

Acute dermal LD₅₀ for rats is >5000 mg/kg.

Acute inhalation toxicity LC₅₀ (4 h) for rats is >15.0 mg/l.

Skin irritation: Non-irritating to skin (rabbits).

Eye irritation: Non-irritating to eyes (rabbits).

Skin sensitization for guinea pig: Not a skin sensitiser.

12. Ecological And Ecotoxicological Information

Effect on birds: Acute oral LD₅₀ for Mallard is 196 mg/kg.

Effect on fish: Acute LC₅₀ (96 h) for Rainbow trout is 75 mg/l.

Effects on aquatic invertebrates: Acute EC₅₀ (48 h) for Daphnia magna is >78.4 mg/l.

Effects on algae: Acute EC₅₀ (72 h) for Scenedemus subspicatus is 75.9 mg/l.

Effects on bees: Contact acute (48 h) LD₅₀ is >113 µg/bee, Oral acute (48 h) LD₅₀ is >87.5 µg/bee.

Effects on earthworms: Acute 14 day LC₅₀ is >1000 mg/kg.

13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport Information

DOT: Non-Hazardous for transport: this substance is considered to be non-hazardous for transport.

Hazard Class: 4.1

UN Number: 1332

15. Regulatory Information

EU additional classification:

Symbol of Danger: Xn

Indication of danger: Harmful

Safety statements: Wear suitable protective clothing, gloves and eye/face protection.



16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.