

Material Safety Data Sheet

1. Chemical Product and Company Identification

MSDS Name: Dess-Martin Periodinane (87413-09-0)
Company Identification: Letopharm Limited
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2. Product Information

Catalog No: LT0221058
Synonym: 1,1,1-Triacetoxy-1,1-dihydro-1,2-benziodoxol-3(1H)-one
Molecular Formula: C₁₃H₁₃O₈
Molecular Weight: 424.14
CAS Number: 87413-09-0
MDL Number: MFCD00130127
Purity: 98%

3. Physical and Chemical Properties

Physical state: White crystal powder
Odor: N/A
Freezing/Melting Point: 130-133°C
Boiling Point: 40 °C
Flash Point: >221 °F
Autoignition Temperature: N/A
Refractive Index (n_D20): N/A
Density: 1.362
Decomposition Temperature: N/A
Storage Temperature: 0-6°C

4. Hazards Identification

Eye: Causes eye irritation.
Skin: Causes skin irritation. Harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

5. First Aid Measures

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

Skin: Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

6. Stability and Reactivity

Chemical Stability: N/A

Materials to avoid: Strong oxidizing agents.

Conditions to Avoid: Incompatible materials.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization: Will not occur

7. Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.

Storage: Store in a cool, dry well ventilated place away from sources of heat and incompatible substances. Keep container tightly closed when not in use.

8. Personal Protection

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. Fire and Explosion Hazard Data

General Information: As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

10. 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.

11. Toxicological Information

N/A

12. Environmental information

N/A

13. Disposal Consideration

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

14. Transport Information

Hazards Class: 5.1: Oxidizer.

UN-No: 1479

Proper shipping name: Oxidizing solid, n.o.s.

Packing group: III

15. Regulatory Information

N/A

16. Additional Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. But we cannot accept liability for any loss, injury or damage which may result from its use.