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## MATERIAL SAFETY DATA SHEET (MSDS)

### DESS MARTIN PERIODINANE (DMP FOR SYNTHESIS)

#### 1. Product Identification

**Synonyms:** (1,1,1-Trisacetoxy)-1,1-dihydro-1,2-benziodoxol-3-(1H)  
**CAS No.:** 87413-09-0

Product Coad: D0082700100

**Molecular Formula:** C<sub>13</sub>H<sub>13</sub>IO<sub>8</sub>

**Molecular Weight:** 424.14

#### 2. Composition/Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
87413-09-0	DESS MARTIN PERIODINANE		

#### 3 - HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed.  
 Irritating to eyes, respiratory system and skin. Heating may cause an explosion. Contact with combustible material may cause fire.  
 Potential Health Effects  
 Eye: Causes eye irritation.  
 Skin: Causes skin irritation. Harmful if absorbed through the skin.  
 Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.  
 Inhalation: Harmful if inhaled. Causes 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 eyelids. Get medical aid.  
 Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
 Ingestion: Get medical aid. 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.  
 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. Strong oxidizer. Contact with other material may cause fire.  
 Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

#### 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.

#### 7 - HANDLING and STORAGE

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.  
 Storage: Keep away from sources of ignition. Do not store near combustible materials. Store in a tightly closed container. Store in a dry area.  
 Deep freeze (below -20C). Store under nitrogen.

#### 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.  
 Exposure Limits CAS# 87413-09-0: Personal Protective Equipment Eyes: Not available.  
 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.

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#### **9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid  
 Color: Not available.  
 Odor: Not available.  
 pH: Not available.  
 Vapor Pressure: Not available.  
 Viscosity: Not available.  
 Boiling Point: Not available.  
 Freezing/Melting Point: 130 - 133 deg C  
 Autoignition Temperature: Not available.  
 Flash Point: Not available.  
 Explosion Limits, lower: Not available.  
 Explosion Limits, upper: Not available.  
 Decomposition Temperature:  
 Solubility in water:  
 Specific Gravity/Density:  
 Molecular Formula: C<sub>13</sub>H<sub>13</sub>IO<sub>8</sub>  
 Molecular Weight: 424.14

#### **10 - STABILITY AND REACTIVITY**

Chemical Stability:  
 Unstable. Air sensitive. Moisture sensitive.  
 Conditions to Avoid:  
 Incompatible materials, exposure to air, combustible materials, exposure to moist air or water, temperatures above 130C.  
 Incompatibilities with Other Materials:  
 Strong reducing agents.  
 Hazardous Decomposition Products:  
 Carbon monoxide, carbon dioxide, hydrogen iodide.  
 Hazardous Polymerization: Will not occur.

#### **11 - TOXICOLOGICAL INFORMATION**

RTECS#:  
 CAS# 87413-09-0 unlisted.  
 LD50/LC50:  
 Not available.  
 Carcinogenicity:  
 Dess-Martin-periodinane - Not listed by ACGIH, IARC, or NTP.

#### **12 - ECOLOGICAL INFORMATION**

#### **13 - DISPOSAL CONSIDERATIONS**

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

#### **14 - TRANSPORT INFORMATION**

IATA  
 Shipping Name: OXIDIZING SOLID, N.O.S.\*  
 Hazard Class: 5.1  
 UN Number: 1479  
 Packing Group: III  
 IMO

Shipping Name: OXIDIZING SOLID, N.O.S.  
 Hazard Class: 5.1  
 UN Number: 1479  
 Packing Group: III  
 RID/ADR  
 Shipping Name: OXIDIZING SOLID, N.O.S.  
 Hazard Class: 5.1  
 UN Number: 1479  
 Packing group: III

**MATERIAL SAFETY DATA SHEET (MSDS)****DESS MARTIN PERIODINANE (DMP FOR SYNTHESIS)****15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN O

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 5 Heating may cause an explosion.

R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 22 Do not breathe dust.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 87413-09-0: No information available.

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 87413-09-0 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 87413-09-0 is not listed on the TSCA inventory.

It is for research and development use only.

**16. Other Information****Product Use:**

Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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