

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **Dess-Martin Periodinane**
Product Code IL-DM
CAS Number 87413-09-0
Other Names 1,1,1-Triacetoxy-1,1-dihydro-1,2-benziodoxol-3(1H)-one
IUPAC
MFCD Number MFCD00130127
EC/EINECS 672-328-8
REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

ISOMERLAB D.O.O.
TRZASKA CESTA 297A
SI-1000 LJUBLJANA
SLOVENIA



Telephone: +38640764332
Email: INFO@ISOMERLAB.COM

4. Emergency telephone number

112

2. Hazards Identification

1. Classification of the substance or mixture

EUH044		
H272	Ox. Sol. 3	
H302	Acute Tox. 4	
H312	Acute Tox. 4	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H332	Acute Tox. 4	
H335	STOT SE 3	

2. Label elements

Signal Word **Danger**



Hazard Statements

EUH044	Risk of explosion if heated under confinement.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P220	Keep/Store away from clothing/./combustible materials.

P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P501	Dispose of contents/container to local regulations

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
Dess-Martin Periodinane		
CAS Number: 87413-09-0 EC/EINECS: 672-328-8	EUH044, H272, H302, H312, H315, H319, H332, H335 Acute Tox. 4, Eye Irrit. 2, Ox. Sol. 3, Skin Irrit. 2, STOT SE 3	<=100%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P332 + P313: If skin irritation occurs: Get medical advice/attention.
<i>Eye Contact</i>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention.
<i>Ingestion</i>	P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
<i>Inhalation</i>	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2. Most important symptoms and effects

No symptoms.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

<i>Suitable</i>	Carbon dioxide. Dry chemical powder.
<i>Unsuitable</i>	Do not use water.

2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
In combustion emits toxic fumes of hydrogen iodide.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Absorb into dry earth or sand.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

No Special Measures Required

7. Handling and Storage

1. Personal Precautions

Safe Handling Handle under dry, protective gas.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Protection against explosions and fires P220: Keep/Store away from clothing/./combustible materials.
P362: Take off contaminated clothing and wash before reuse.
Risk of explosion if heated under confinement.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.
Keep container tightly closed.
Store cold 2-8° C.

Storage Controls No special requirements

Maintaining Integrity P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233: Keep container tightly closed.
handle and store under inert gas
Keep in tightly closed container in cool area away from direct sunlight or heat sources.

Other advice P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures P280: Wear protective gloves/protective clothing/eye protection/face protection.
The standard precautionary measures should be adhered to when handling
Wash hands during breaks and at the end of handling the material
Immediately remove any contaminated clothing

Engineering measures P271: Use only outdoors or in a well-ventilated area.

Eye / Face Protection Safety Glasses.

Hand protection The selected Gloves have to satisfy the specifications of EU directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection P260: Do not breathe dust/fume/gas/mist/vapours/spray.

Skin protection Handle with gloves.
Gloves must be inspected prior to use.
Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice.
Protective clothing.

Other personal protection advice no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Solid
Odour	No Data Available
Odour threshold	No Data Available

PH	No Data Available
Melting point / Freezing point	134-136°C
Initial boiling point and boiling range	No Data Available
Flash point	>300°C
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	1.369
Solubility(ies):	Chloroform. Acetone. Acetonitrile.
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

Reacts with water

2. Stability

In the presence of moisture, may form iodoxybenzoic acid which has been reported to be explosive under excessive heating or impact.

3. Possibility of Hazardous Reactions

May intensify fire; oxidiser.

4. Conditions to Avoid

Moist Air.

5. Incompatible Materials

Water.
 Reducing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
 In combustion emits toxic fumes of hydrogen iodide.
 In combustion emits toxic fumes of hydroiodic acid.

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	no data
<i>Skin corrosion/irritation</i>	irritant for skin and mucous membranes
<i>Serious eye Damage/irritation</i>	irritant effect
<i>Respiratory or skin sensitisation</i>	May cause respiratory irritation.
<i>Germ Cell mutagenicity</i>	not known
<i>Carcinogenicity</i>	not known
<i>Reproductive toxicity</i>	not known

STOT-single exposure not known
STOT-repeated exposure not known
Aspiration hazard not known

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information

1. Toxicity

not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. **UN Number:** 1479
2. **Shipping Name:** Oxidizing solid, n.o.s.
3. **Transport hazard class(es):** : 5.1 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Road (ADR)

1. **UN Number:** 1479
2. **Shipping Name:** OXIDIZING SOLID, N.O.S (Dess-Martin Periodinane).
3. **Transport hazard class(es):** : 5 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Sea (IMDG)

1. **UN Number:** 1479
2. **Shipping Name:** Oxidizing solid, n.o.s.
3. **Transport hazard class(es) :** 5.1 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:** IBCINS: IBC08
IBCPCOV: B3
TANKPROV: TP33

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)
RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association
ICAO:International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.