MATERIAL IDENTIFICATION

NAME: Dess-Martin Periodinane
CAS#: [87413-09-0]
CAT#: 011794
For R&D use only.

HAZARDS IDENTIFICATION

GHS Classification
Oxidising solids (Category 3)
Acute toxicity, oral (Category 4)
Acute toxicity, dermal (Category 4)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2A)
Acute toxicity, inhalation (Category 4)
Respiratory tract irritation (Category 3)

GHS Label elements, including precautionary statements

Pictograms

Signal Word Warning

Hazard Statement(s)
H272 May intensify fire; oxidizer
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
EUH044 Risk of explosion if heated under confinement

Precautionary Statement(s)
P220 Keep/Store away from clothing/…/combustible materials.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 1,1,1-tris(acetyloxy)-1,1-dihydro-1,2-benziodoxol-3(1H)-one, dess-martin periodinane, acetic acid 1,1-diacetoxy-3-oxo-15-ioda-2-oxa-indan-1-yl ester, 1,1,1-triacetoxy-1,1-dihydro-1,2-benziodoxol-3(1H)-one, dess-martin reagent, (7,7-diacetoxy-9-oxo-7lambda(5)-ioda-8-oxabicyclo[1,1,1-triacetoxy-1,1-dihydro-1,2-benziodoxol-3(1H)-one, dess martain periodinane, 1,1,1-tris(acetyloxy)-1,1-dihydro-1,2-benziodoxol-3(1H)-one
Formula : C13H13IO8
Molecular Weight : 424.143 g/mol

<table>
<thead>
<tr>
<th>CAS</th>
<th>Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>87413-09-0</td>
<td>Dess-Martin Periodinane</td>
<td>95%</td>
</tr>
</tbody>
</table>

FIRST AID MEASURES

In case of eye contact
Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

In case of skin contact
Wash thoroughly with soap and plenty of water. Seek medical attention.

If inhaled
Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

If swallowed
Do not induce vomiting. Give water to victim to drink. Seek medical attention.

FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product
emits toxic fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES
**Personal precautions**
Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area.
Remove all sources of ignition. Evacuate personnel.

**Environmental precautions**
Prevent further leakage if safe to do so.

**Methods and materials for containment and clean up**
Absorb spills on sand or vermiculite and place in closed container for disposal.

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### HANDLING AND STORAGE

**Precautions for safe handling**
Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

**Precautions for safe storage**
Keep container tightly closed. Store in a cool, dry, well-ventilated area.
Light sensitive
Air sensitive
Moisture sensitive
Keep cold.
Store at -20°C.

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### EXPOSURE CONTROL/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

**Eye/face protection**
Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Hand/skin protection**
Avoid all direct contact with product.
Wear chemical-resistant gloves.
Wear protective clothing and boots.
After contact with skin, wash immediately.

**Respiratory protection**
Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

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### PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White powder</td>
</tr>
<tr>
<td>Odour</td>
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<tr>
<td>Odour Threshold</td>
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<tr>
<td>Melting point/Freezing Point</td>
<td>130-133°C</td>
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<tr>
<td>Boiling Point</td>
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<tr>
<td>Flash Point</td>
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<tr>
<td>Evaporation Rate</td>
<td>no data available</td>
</tr>
</tbody>
</table>
Flammability (solid, gas) no data available
Upper/Lower Flammability or Explosive limits no data available
Vapour pressure no data available
Relative Density no data available
Solubility(ies) no data available
Partition coefficient: n-octanol/water no data available
Auto-ignition temperature no data available
Decomposition temperature no data available
Viscosity no data available
Refractive Index no data available

STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Risk of explosion if heated under confinement

Conditions to avoid
Light.
Air.
Moisture.

Incompatible materials
Strong reducing agents and water.

Hazardous decomposition products
May evolve carbon monoxide, carbon dioxide, and hydrogen iodide.

TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Skin corrosion/irritation
Causes skin irritation

Serious eye damage/eye irritation
Causes serious eye irritation

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
no data available

Reproductive toxicity
no data available
STOT-single exposure
May cause respiratory irritation

STOT-repeated exposure
no data available

Aspiration hazard
no data available

Exposure Routes
Harmful to skin, eyes, and respiratory system.
May be toxic if inhaled or swallowed.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

DISPOSAL CONSIDERATIONS

Dissolve in 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 laws.

TRANSPORT INFORMATION

DOT
Oxidizing solid, n.o.s.
5.1
UN1479  III

IMDG
Oxidizing solid, n.o.s.
5.1
UN1479  III
EMS-No: F-A, S-Q
Marine Pollutant: No

IATA
OXIDIZING SOLID, N.O.S.

5.1

UN1479  III

REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

New Jersey Right to Know Components
This product may contain a chemical on the New Jersey Right to Know Components List.

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California Prop. 65 Components
This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

OTHER INFORMATION

Version : 1.3

Revision Date : 8/21/2017

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.