# Chemical Safety Data Sheet MSDS / SDS

# **Dess-Martin periodinane**

Revision Date:2025-05-03 Revision Number:1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product name	: Dess-Martin periodinane		
CBnumber	: CB0776475		
CAS	: 87413-09-0		
EINECS Number	: 672-328-8		
Synonyms	: Dess-Martin, Dess-Martin periodinane		
Relevant identified uses of the substance or mixture and uses advised against			
Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.		
Uses advised against	: none		
Company Identification			
Company	: Chemicalbook		
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing		
Telephone	: 010-86108875		

# SECTION 2: Hazards identification

#### GHS Label elements, including precautionary statements

Symbol(GHS)

Signal word

Danger

Precautionary statements

P501 Dispose of contents/container to.....

P405 Store locked up.

P370+P378 In case of fire: Use ... for extinction.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P307+P311 IF exposed: call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

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

P270 Do not eat, drink or sm	oke when using this product.
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P264 Wash skin thouroughly after handling.

- P264 Wash hands thoroughly after handling.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P240 Ground/bond container and receiving equipment.
- P233 Keep container tightly closed.
- P221 Take any precaution to avoid mixing with combustibles/...
- P220 Keep/Store away from clothing/.../combustible materials.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P202 Do not handle until all safety precautions have been read and understood.
- P201 Obtain special instructions before use.

#### Hazard statements

- H336 May cause drowsiness or dizziness
- H335 May cause respiratory irritation
- H319 Causes serious eye irritation
- H315 Causes skin irritation
- H302 Harmful if swallowed
- H272 May intensify fire; oxidizer
- H225 Highly Flammable liquid and vapour
- H411 Toxic to aquatic life with long lasting effects
- H372 Causes damage to organs through prolonged or repeated exposure
- H370 Causes damage to organs
- H351 Suspected of causing cancer
- H341 Suspected of causing genetic defects

# SECTION 3: Composition/information on ingredients

#### Substance

Product name	: Dess-Martin periodinane
Synonyms	: Dess-Martin, Dess-Martin periodinane
CAS	: 87413-09-0
EC number	: 672-328-8
MF	: C13H13IO8
MW	: 424.14

### SECTION 4: First aid measures

#### Description of first aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### lf inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

#### Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special hazards arising from the substance or mixture

Carbon oxides Hydrogen iodide Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire. Has a fire-promoting effect due to release of oxygen.

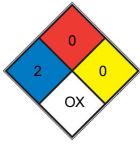
#### Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### **Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **NFPA 704**



HEALTH 2

Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g.

diethyl ether, ammonium phosphate, iodine)

Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete,

	FIRE	0	stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5	
			minutes.(e.g. Carbon tetrachloride)	
	REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)	
	SPEC.	02		
	HAZ.	07		
		-		

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**Environmental precautions** 

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### **Reference to other sections**

For disposal see section 13.

### SECTION 7: Handling and storage

#### Precautions for safe handling

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

#### Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Away from combustible materials and sources of ignition and heat. Do not store near combustible materials.

#### Storage stability

Recommended storage temperature

#### -20 °C

Handle and store under inert gas. Handle and open container with care. Air and moisture sensitive.

#### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

#### control parameter

#### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

#### **Exposure controls**

#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety

glasses

**Body Protection** 

#### protective clothing

**Respiratory protection** 

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other

accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the

instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

# SECTION 9: Physical and chemical properties

#### Information on basic physicochemical properties

Appearance	solid
Odour	No data available
Odour Threshold	No data available
рН	No data available
Melting point/freezing point	Melting point/range: 130 - 133 °C - lit.
Initial boiling point and boiling range	40 °C
Flash point	>221 °F
Evaporation rate	No data available
Flammability (solid, gas)	No data available

Upper/lower flammability or explosive	No data available
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limits	
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Soluble in chloroform, acetone, acetonitrile and methylene chloride. Slightly soluble in ether and
	hexane.
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Explosive properties	No data available
Oxidizing properties	The substance or mixture is classified as oxidizing with the category 2.

#### Other safety information

No data available

### SECTION 10: Stability and reactivity

#### Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

#### **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature). In the presence of moisture, this compound may form iodoxybenzoic acid which has been reported to be explosive under excessive heating or impact.

#### Possibility of hazardous reactions

No data available

#### Conditions to avoid

Exposure to air. no information available

#### Incompatible materials

No data available

#### Hazardous decomposition products

In the event of fire: see section 5

### SECTION 11: Toxicological information

#### Acute toxicity

Symptoms: After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Symptoms: mucosal irritations, Cough, Shortness of breath Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity No data available Reproductive toxicity Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure Aspiration hazard

### SECTION 12: Ecological information

#### Toxicity

Persistence and degradability

**Bioaccumulative potential** 

Mobility in soil

#### Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Other adverse effects

We have no quantitative data concerning the ecological effects of this product. Further information on ecology Discharge into the environment must be avoided.

### **SECTION 13: Disposal considerations**

#### Waste treatment methods

#### Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

### **SECTION 14: Transport information**

#### **UN number**

#### UN proper shipping name

ADR/RID: OXIDIZING SOLID, N.O.S. (1,1,1-tris(acetyloxy)-1,1-dihydro-1,2-benziodoxol- 3(1H)-one) IMDG: OXIDIZING SOLID, N.O.S. (1,1,1-tris(acetyloxy)-1,1-dihydro-1,2-benziodoxol- 3(1H)-one) IATA: Oxidizing solid, n.o.s. (1,1,1-tris(acetyloxy)-1,1-dihydro-1,2-benziodoxol-3(1H)- one)

#### Transport hazard class(es)

ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1

#### **Packaging group**

ADR/RID: III IMDG: III IATA: III

#### **Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

#### Special precautions for user

No data available

# SECTION 15: Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations on the Safety Management of Hazardous Chemicals

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

#### Measures for Environmental Management of New Chemical Substances

United States Toxic Substances Control Act (TSCA) Inventory:Not Listed. website: https://www.epa.gov/

Philippines Inventory of Chemicals and Chemical Substances (PICCS):Not Listed. website: https://emb.gov.ph/

Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr

European Inventory of Existing Commercial Chemical Substances (EINECS):Not Listed. website: https://echa.europa.eu/ EC Inventory:Not Listed.

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Not Listed. website: https://www.mee.gov.cn/

Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/

New Zealand Inventory of Chemicals (NZIoC):Listed. website: https://www.epa.govt.nz/

### **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service

EC50: Effective Concentration 50%

IATA: International Air Transportation Association

IMDG: International Maritime Dangerous Goods

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit

TWA: Time Weighted Average

#### References

- [1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- [2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- [3] ECHA European Chemicals Agency, website: https://echa.europa.eu/
- [4] eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

- [5] ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

[8] IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

[9] IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

[10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

**Disclaimer:** 

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.