

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/12/2018

Reviewed on 12/12/2018

## 1 Identification

- **Product identifier**
- **Trade name:** cadmium iodide
- **Article number:** 12320, 12321
- **CAS Number:**  
7790-80-9
- **EC number:**  
232-223-6
- **Index number:**  
048-007-00-8
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS06 GHS08

- **Signal word** Danger
- **Hazard statements**  
Toxic if swallowed or if inhaled.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.

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Trade name: cadmium iodide

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- **Precautionary statements**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If swallowed: Immediately call a poison center/doctor.
- Specific treatment (see on this label).
- Rinse mouth.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF exposed or concerned: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**

- **CAS No. Description**

7790-80-9 cadmium iodide

- **Identification number(s)**

- **EC number:** 232-223-6

- **Index number:** 048-007-00-8

### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

- Immediately remove any clothing soiled by the product.
- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:**

- Supply fresh air or oxygen; call for doctor.

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- In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
*Inform respective authorities in case of seepage into water course or sewage system.*  
*Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**  
*Dispose contaminated material as waste according to item 13.*  
*Ensure adequate ventilation.*
- **Reference to other sections**  
*See Section 7 for information on safe handling.*  
*See Section 8 for information on personal protection equipment.*  
*See Section 13 for disposal information.*
- **Protective Action Criteria for Chemicals**
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.
- **PAC-3:** Substance is not listed.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
*Thorough dedusting.*  
*Ensure good ventilation/exhaustion at the workplace.*  
*Open and handle receptacle with care.*  
*Prevent formation of dust.*
- **Information about protection against explosions and fires:** *Keep respiratory protective device available.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Keep receptacle tightly sealed.*

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· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

### 7790-80-9 cadmium iodide

PEL Long-term value: 0.005 mg/m<sup>3</sup>  
as Cd; see 29 CFR 1910.1027

REL See Pocket Guide App. A

TLV Long-term value: 0.01 0.002\* mg/m<sup>3</sup>  
as Cd; \*respirable fraction; BEI

· **Ingredients with biological limit values:**

### 7790-80-9 cadmium iodide

BEI 5 µg/g creatinine  
Medium: urine  
Time: not critical  
Parameter: Cadmium (background)

5 µg/L  
Medium: blood  
Time: not critical  
Parameter: Cadmium (background)

· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

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## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Solid
Color:	Not determined.
Odor:	Characteristic
Odor threshold:	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range:	387 °C (728.6 °F)
Boiling point/Boiling range:	796 °C (1,464.8 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Product is not flammable.  
Not determined.  
Not flammable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Not determined.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapor pressure at 402 °C (755.6 °F):** 0.13 hPa (0.1 mm Hg)

· **Density at 20 °C (68 °F):** 5.67 g/cm<sup>3</sup> (47.31615 lbs/gal)

Bulk density:	2,100 kg/m <sup>3</sup>
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.

· **Solubility in / Miscibility with**

Water at 20 °C (68 °F): 798 g/l

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic:	Not applicable.
Kinematic:	Not applicable.

· **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	166 mg/kg (mouse)
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· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer) 1**

· **NTP (National Toxicology Program) K**

· **OSHA-Ca (Occupational Safety Health Administration) Substance is not listed.**

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Very toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (Assessment by list): extremely hazardous for water

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

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

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· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· **UN-Number**· **DOT, ADR, IMDG, IATA**

UN2570

· **UN proper shipping name**· **DOT**

Cadmium compounds

· **ADR**2570 CADMIUM COMPOUND (cadmium iodide),  
ENVIRONMENTALLY HAZARDOUS· **IMDG**

CADMIUM COMPOUND, MARINE POLLUTANT

· **IATA**

CADMIUM COMPOUND

· **Transport hazard class(es)**· **DOT**· **Class**

6.1 Toxic substances

· **Label**

6.1

· **ADR, IMDG**· **Class**

6.1 Toxic substances

· **Label**

6.1

· **IATA**· **Class**

6.1 Toxic substances

· **Label**

6.1

· **Packing group**· **DOT, ADR, IMDG, IATA**

III

· **Environmental hazards:**

Environmentally hazardous substance, solid; Marine Pollutant

· **Marine pollutant:**

Yes (DOT)

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Toxic substances

· **Danger code (Kemler):**

60

· **EMS Number:**

6.1-04

· **Stowage Category**

A

· **Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code**

Not applicable.

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· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**

On passenger aircraft/rail: 100 kg

On cargo aircraft only: 200 kg

· **Remarks:**

Special marking with the symbol (fish and tree).

· **ADR**

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **IMDG**

· **Limited quantities (LQ)**

5 kg

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":**

UN 2570 CADMIUM COMPOUND (CADMIUM IODIDE), 6.1, III,  
ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

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

· **Sara**

· **Section 355 (extremely hazardous substances):** Substance is not listed.

· **Section 313 (Specific toxic chemical listings):** Substance is listed.

· **TSCA (Toxic Substances Control Act):** Substance is listed.

· **TSCA new (21st Century Act) (Substances not listed)**

7790-80-9	cadmium iodide
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· **Proposition 65**

· **Chemicals known to cause cancer:** Substance is listed.

· **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.

· **Chemicals known to cause developmental toxicity:** Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)** Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.

· **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS06 GHS08

· **Signal word** Danger

· **Hazard statements**

Toxic if swallowed or if inhaled.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

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**Trade name: cadmium iodide**

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· **Precautionary statements**

- Obtain special instructions before use.*
  - Do not handle until all safety precautions have been read and understood.*
  - Do not breathe dust/fume/gas/mist/vapors/spray.*
  - Wash thoroughly after handling.*
  - Do not eat, drink or smoke when using this product.*
  - Use only outdoors or in a well-ventilated area.*
  - Wear protective gloves/protective clothing/eye protection/face protection.*
  - If swallowed: Immediately call a poison center/doctor.*
  - Specific treatment (see on this label).*
  - Rinse mouth.*
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
  - IF exposed or concerned: Get medical advice/attention.*
  - Get medical advice/attention if you feel unwell.*
  - Store in a well-ventilated place. Keep container tightly closed.*
  - Store locked up.*
  - Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Date of preparation / last revision** 12/12/2018 / -

· **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
- IMDG: International Maritime Code for Dangerous Goods*
- DOT: US Department of Transportation*
- IATA: International Air Transport Association*
- ACGIH: American Conference of Governmental Industrial Hygienists*
- EINECS: European Inventory of Existing Commercial Chemical Substances*
- CAS: Chemical Abstracts Service (division of the American Chemical Society)*
- NFPA: National Fire Protection Association (USA)*
- HMIS: Hazardous Materials Identification System (USA)*
- LC50: Lethal concentration, 50 percent*
- LD50: Lethal dose, 50 percent*
- PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative*
- NIOSH: National Institute for Occupational Safety*
- OSHA: Occupational Safety **Health***
- TLV: Threshold Limit Value**
- PEL: Permissible Exposure Limit**
- REL: Recommended Exposure Limit**
- BEI: Biological Exposure Limit**
- Acute Tox. 3: Acute toxicity – Category 3*
- Carc. 2: Carcinogenicity – Category 2*
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

# Safety Data Sheet

## according to WHS Regulations

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Revision: 12.12.2018

### 1 Identification

· **Product identifier**

· **Trade name:** cadmium iodide

· **Article number:** 12320, 12321

· **CAS Number:**

7790-80-9

· **EC number:**

232-223-6

· **Index number:**

048-007-00-8

· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Laboratory chemicals

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

ProSciTech Pty Ltd

11 Carlton Street, Kirwan QLD 4817 Australia

Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)

Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)

Website: [ems.proscitech.com](http://ems.proscitech.com)

Emgrid Australia Pty. Ltd.

P.O. Box 118

The Patch VIC 3792

Australia

Tel: 03 9752 1785

Fax: 03 9752 1784

Website: [www.emgrid.com.au](http://www.emgrid.com.au)

· **Further information obtainable from:** Product safety department

· **Emergency telephone number:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### 2 Hazard(s) Identification

· **Classification of the substance or mixture**



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

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Trade name: cadmium iodide

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STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **Label elements**
  - **GHS label elements**
- The substance is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS06 GHS08

- **Signal word** *Danger*
- **Hazard statements**
  - Toxic if swallowed.*
  - Toxic if inhaled.*
  - Suspected of causing cancer.*
  - May cause damage to organs through prolonged or repeated exposure.*
- **Precautionary statements**
  - Obtain special instructions before use.*
  - Do not handle until all safety precautions have been read and understood.*
  - Do not breathe dust/fume/gas/mist/vapours/spray.*
  - Wash thoroughly after handling.*
  - Do not eat, drink or smoke when using this product.*
  - Use only outdoors or in a well-ventilated area.*
  - Wear protective gloves/protective clothing/eye protection/face protection.*
  - IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
  - Specific treatment (see on this label).*
  - Rinse mouth.*
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*
  - IF exposed or concerned: Get medical advice/attention.*
  - Get medical advice/attention if you feel unwell.*
  - Store in a well-ventilated place. Keep container tightly closed.*
  - Store locked up.*
  - Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Substances**
- **CAS No. Description**  
*7790-80-9 cadmium iodide*
- **Identification number(s)**
- **EC number:** 232-223-6
- **Index number:** 048-007-00-8

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Trade name: cadmium iodide

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### 4 First Aid Measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of dust.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

7790-80-9 cadmium iodide

NES Long-term value: 0.01 mg/m<sup>3</sup>

Note (g); as Cd

WES Long-term value: 0.01 mg/m<sup>3</sup>

Note (g); as Cd

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Solid
<b>Colour:</b>	Not determined.
<b>Odour:</b>	Characteristic

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· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not applicable.
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	387 °C
<b>Initial boiling point and boiling range:</b>	796 °C
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gas):</b>	Product is not flammable. Not determined. Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure at 402 °C:</b>	0.13 hPa
· <b>Density at 20 °C:</b>	5.67 g/cm <sup>3</sup>
· <b>Bulk density:</b>	2,100 kg/m <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water at 20 °C:</b>	798 g/l
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Other information</b>	No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

AU

(Contd. on page 6)

# Safety Data Sheet

## according to WHS Regulations

Printing date 12.12.2018

Revision: 12.12.2018

Trade name: cadmium iodide

(Contd. of page 5)

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

Oral	LD50	166 mg/kg (mouse)
------	------	-------------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**  
Carc. 2

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxic effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- **UN-Number**
- **ADG, IMDG, IATA** UN2570

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-AU

# Safety Data Sheet

according to WHS Regulations

Printing date 12.12.2018

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Trade name: cadmium iodide

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<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	<p>2570 CADMIUM COMPOUND (cadmium iodide), ENVIRONMENTALLY HAZARDOUS CADMIUM COMPOUND, MARINE POLLUTANT CADMIUM COMPOUND</p>
--	--

- **Transport hazard class(es)**
- **ADG, IMDG**



- **Class** 6.1 Toxic substances.
- **Label** 6.1

- **IATA**



- **Class** 6.1 Toxic substances.
- **Label** 6.1

- **Packing group** III
- **ADG, IMDG, IATA**

- **Environmental hazards:** Environmentally hazardous substance, solid; Marine Pollutant
- **Marine pollutant:** Yes (DOT)  
Symbol (fish and tree)
- **Special marking (ADG):** Symbol (fish and tree)

- **Special precautions for user** Warning: Toxic substances.
- **Danger code (Kemler):** 60
- **EMS Number:** 6.1-04
- **Stowage Category** A

- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

- **Transport/Additional information:**

- **ADG**
- **Limited quantities (LQ)** 5 kg
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 g  
Maximum net quantity per outer packaging: 1000 g
- **Transport category** 2
- **Tunnel restriction code** E

- **IMDG**
- **Limited quantities (LQ)** 5 kg

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# Safety Data Sheet

## according to WHS Regulations

Printing date 12.12.2018

Revision: 12.12.2018

Trade name: cadmium iodide

(Contd. of page 7)

· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 2570 CADMIUM COMPOUND (CADMIUM IODIDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Chemical Substances** Substance is listed.
- **Standard for the Uniform Scheduling of Medicines and Poisons** Substance is not listed.
- **GHS label elements**  
The substance is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS06 GHS08

- **Signal word** Danger
- **Hazard statements**  
Toxic if swallowed.  
Toxic if inhaled.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
**IF SWALLOWED:** Immediately call a POISON CENTER/ doctor.  
Specific treatment (see on this label).  
Rinse mouth.  
**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**IF exposed or concerned:** Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Seveso category**  
H2 ACUTE TOXIC  
E1 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

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# Safety Data Sheet

## according to WHS Regulations

Printing date 12.12.2018

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**Trade name: cadmium iodide**

(Contd. of page 8)

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 3: Acute toxicity – Category 3*

*Carc. 2: Carcinogenicity – Category 2*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

AU

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/12/2018

Reviewed on 12/12/2018

## 1 Identification

- **Product identifier**
- **Trade name:** cadmium iodide
- **Article number:** 12320, 12321
- **CAS Number:**  
7790-80-9
- **EC number:**  
232-223-6
- **Index number:**  
048-007-00-8
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Toxicity (Oral) - Category 3

H301 Toxic if swallowed.

Acute Toxicity (Inhalation) - Category 3

H331 Toxic if inhaled.



GHS08 Health hazard

Carcinogenicity – Category 2

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure -  
Category 2H373 May cause damage to organs through  
prolonged or repeated exposure.

- **Label elements**

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS06 GHS08

- **Signal word** Danger

- **Hazard statements**

Toxic if swallowed or if inhaled.  
Suspected of causing cancer.

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CA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/12/2018

Reviewed on 12/12/2018

**Trade name: cadmium iodide**

(Contd. of page 1)

*May cause damage to organs through prolonged or repeated exposure.*

· **Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Do not breathe dust/fume/gas/mist/vapours/spray.*

*Wash thoroughly after handling.*

*Do not eat, drink or smoke when using this product.*

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

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

*If swallowed: Immediately call a poison center/doctor.*

*Specific treatment (see on this label).*

*Rinse mouth.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*IF exposed or concerned: Get medical advice/attention.*

*Get medical advice/attention if you feel unwell.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

7790-80-9 cadmium iodide

· **Identification number(s)**

· **EC number:** 232-223-6

· **Index number:** 048-007-00-8

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

*Immediately remove any clothing soiled by the product.*

*Remove breathing apparatus only after contaminated clothing have been completely removed.*

*In case of irregular breathing or respiratory arrest provide artificial respiration.*

· **After inhalation:**

*Supply fresh air or oxygen; call for doctor.*

*In case of unconsciousness place patient stably in side position for transportation.*

· **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*

· **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*

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# Safety Data Sheet

## acc. to OSHA HCS

Printing date 12/12/2018

Reviewed on 12/12/2018

**Trade name:** cadmium iodide

(Contd. of page 2)

- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of dust.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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CA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/12/2018

Reviewed on 12/12/2018

Trade name: cadmium iodide

(Contd. of page 3)

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

7790-80-9 cadmium iodide

EL	Long-term value: 0.01 0.002* mg/m <sup>3</sup> as Cd; ACGIH A2, IARC 1; *respirable
----	--

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Solid
Color:	Not determined.

- **Odor:** Characteristic

- **Odor threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

Melting point/Melting range:	387 °C
Boiling point/Boiling range:	796 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Product is not flammable.

Not determined.

Not flammable.

- **Decomposition temperature:** Not determined.

(Contd. on page 5)

CA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/12/2018

Reviewed on 12/12/2018

Trade name: cadmium iodide

(Contd. of page 4)

· <b>Auto igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure at 402 °C:</b>	0.13 hPa
· <b>Density at 20 °C:</b>	5.67 g/cm <sup>3</sup>
· <b>Bulk density:</b>	2,100 kg/m <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water at 20 °C:</b>	798 g/l
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

### · **LD/LC50 values that are relevant for classification:**

Oral	LD50	166 mg/kg (mouse)
------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer) 1**
- **NTP (National Toxicology Program) K**

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# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/12/2018

Reviewed on 12/12/2018

Trade name: cadmium iodide

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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 3 (Assessment by list): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.  
 Also poisonous for fish and plankton in water bodies.  
 Very toxic for aquatic organisms*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |   |   |
|---|---|
| <b>· UN-Number</b>  | UN2570  |
| <b>· DOT, TDG, IMDG, IATA</b>   |   |
| <b>· UN proper shipping name</b>  | Cadmium compounds   |
| <b>· DOT</b>  | 2570 CADMIUM COMPOUND (cadmium iodide), ENVIRONMENTALLY HAZARDOUS |
| <b>· TDG</b>  | CADMIUM COMPOUND, MARINE POLLUTANT                                |
| <b>· IMDG</b>   | CADMIUM COMPOUND  |
| <b>· IATA</b>   |   |
| <b>· Transport hazard class(es)</b>   |   |
| <b>· DOT</b>  |   |
|  |   |
| <b>· Class</b>  | 6.1 Toxic substances  |

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# Safety Data Sheet

acc. to OSHA HCS

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Trade name: cadmium iodide

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· **Label** 6.1  
 · **TDG, IMDG**



· **Class** 6.1 Toxic substances  
 · **Label** 6.1

· **IATA**



· **Class** 6.1 Toxic substances  
 · **Label** 6.1

· **Packing group**  
 · **DOT, TDG, IMDG, IATA** III

· **Environmental hazards:** Environmentally hazardous substance, solid; Marine Pollutant  
 · **Marine pollutant:** Yes (DOT)  
 Symbol (fish and tree)  
 · **Special marking (TDG):** Symbol (fish and tree)

· **Special precautions for user** Warning: Toxic substances  
 · **Danger code (Kemler):** 60  
 · **EMS Number:** 6.1-04  
 · **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**  
 · **Quantity limitations** On passenger aircraft/rail: 100 kg  
 On cargo aircraft only: 200 kg  
 · **Remarks:** Special marking with the symbol (fish and tree).

· **TDG**  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 g  
 Maximum net quantity per outer packaging: 1000 g

· **IMDG**  
 · **Limited quantities (LQ)** 5 kg  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 g  
 Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":** UN 2570 CADMIUM COMPOUND (CADMIUM IODIDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

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# Safety Data Sheet

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Trade name: cadmium iodide

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## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is listed.
- **TSCA (Toxic Substances Control Act):** Substance is listed.
- **Canadian substance listings:**
- **Canadian Domestic Substances List (DSL)** Substance is listed.
- **Canadian Ingredient Disclosure list (limit 0.1%)** Substance is not listed.
- **Canadian Ingredient Disclosure list (limit 1%)** Substance is listed.
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS06    GHS08

- **Signal word** *Danger*
- **Hazard statements**
  - Toxic if swallowed or if inhaled.*
  - Suspected of causing cancer.*
  - May cause damage to organs through prolonged or repeated exposure.*
- **Precautionary statements**
  - Obtain special instructions before use.*
  - Do not handle until all safety precautions have been read and understood.*
  - Do not breathe dust/fume/gas/mist/vapours/spray.*
  - Wash thoroughly after handling.*
  - Do not eat, drink or smoke when using this product.*
  - Use only outdoors or in a well-ventilated area.*
  - Wear protective gloves/protective clothing/eye protection/face protection.*
  - If swallowed: Immediately call a poison center/doctor.*
  - Specific treatment (see on this label).*
  - Rinse mouth.*
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
  - IF exposed or concerned: Get medical advice/attention.*
  - Get medical advice/attention if you feel unwell.*
  - Store in a well-ventilated place. Keep container tightly closed.*
  - Store locked up.*
  - Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Date of the latest revision of the safety data sheet** 12/12/2018 / -
- **Abbreviations and acronyms:**
  - IMDG: International Maritime Code for Dangerous Goods*
  - DOT: US Department of Transportation*
  - IATA: International Air Transport Association*
  - EINECS: European Inventory of Existing Commercial Chemical Substances*
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)*

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**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 12/12/2018

Reviewed on 12/12/2018

**Trade name: cadmium iodide**

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*NFPA: National Fire Protection Association (USA)*  
*HMIS: Hazardous Materials Identification System (USA)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*

CA

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 12.12.2018

Revision: 12.12.2018

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

· **1.1 Product identifier**

· **Trade name:** cadmium iodide

· **Article number:** 12320, 12321

· **CAS Number:**

7790-80-9

· **EC number:**

232-223-6

· **Index number:**

048-007-00-8

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Laboratory chemicals

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

· **Further information obtainable from:** Product safety department

· **1.4 Emergency telephone number:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS06 skull and crossbones

Acute Tox. 3

H301 Toxic if swallowed.

Acute Tox. 3

H331 Toxic if inhaled.



GHS08 health hazard

Carc. 2

H351 Suspected of causing cancer.

STOT RE 2

H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2018

Revision: 12.12.2018

Trade name: cadmium iodide

(Contd. of page 1)

## · Hazard pictograms



GHS06   GHS08   GHS09

· Signal word *Danger*

## · Hazard statements

*H301+H331 Toxic if swallowed or if inhaled.**H351 Suspected of causing cancer.**H373 May cause damage to organs through prolonged or repeated exposure.**H410 Very toxic to aquatic life with long lasting effects.*

## · Precautionary statements

*P260 Do not breathe dust/fume/gas/mist/vapours/spray.**P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**P321 Specific treatment (see on this label).**P330 Rinse mouth.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

## · 2.3 Other hazards

## · Results of PBT and vPvB assessment

· **PBT:** Not applicable.· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

## · 3.1 Chemical characterisation: Substances

## · CAS No. Description

7790-80-9 cadmium iodide

## · Identification number(s)

· **EC number:** 232-223-6· **Index number:** 048-007-00-8

## SECTION 4: First aid measures

## · 4.1 Description of first aid measures

## · General information:

*Immediately remove any clothing soiled by the product.**Remove breathing equipment only after contaminated clothing have been completely removed.**In case of irregular breathing or respiratory arrest provide artificial respiration.*

## · After inhalation:

*Supply fresh air or oxygen; call for doctor.**In case of unconsciousness place patient stably in side position for transportation.*· **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*· **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*· **After swallowing:** *Do not induce vomiting; call for medical help immediately.*· **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*· **4.3 Indication of any immediate medical attention and special treatment needed***No further relevant information available.*

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of dust.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

7790-80-9 cadmium iodide

WEL	Long-term value: 0.025 mg/m <sup>3</sup> as Cd, Carc
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- **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

<b>Form:</b>	Solid
<b>Colour:</b>	Not determined.
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

· **pH-value:** Not applicable.

##### · Change in condition

<b>Melting point/freezing point:</b>	387 °C
<b>Initial boiling point and boiling range:</b>	796 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Product is not flammable.  
Not determined.  
Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Explosive properties:** Product does not present an explosion hazard.

##### · Explosion limits:

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

· **Vapour pressure at 402 °C:** 0.13 hPa

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· <b>Density at 20 °C:</b>	5.67 g/cm <sup>3</sup>
· <b>Bulk density:</b>	2,100 kg/m <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water at 20 °C:</b>	798 g/l
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not applicable.
· <b>Kinematic:</b>	Not applicable.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

##### · Acute toxicity

Toxic if swallowed or if inhaled.

##### · LD/LC50 values relevant for classification:

Oral	LD50	166 mg/kg (mouse)
------	------	-------------------

##### · Primary irritant effect:

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- |   |   |
|---|---|
| · <b>14.1 UN-Number</b>   | UN2570  |
| · <b>ADR, IMDG, IATA</b>  |   |
| · <b>14.2 UN proper shipping name</b>   | 2570 CADMIUM COMPOUND (cadmium iodide), ENVIRONMENTALLY HAZARDOUS |
| · <b>ADR</b>  | CADMIUM COMPOUND, MARINE POLLUTANT                                |
| · <b>IMDG</b>   | CADMIUM COMPOUND  |
| · <b>IATA</b>   |   |
| · <b>14.3 Transport hazard class(es)</b>  |   |
| · <b>ADR, IMDG</b>  |   |
|  |   |
| · <b>Class</b>  | 6.1 Toxic substances.   |

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· <b>Label</b>	6.1
· <b>IATA</b>	
	
· <b>Class</b>	6.1 Toxic substances.
· <b>Label</b>	6.1
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	Environmentally hazardous substance, solid; Marine Pollutant
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Toxic substances.
· <b>Danger code (Kemler):</b>	60
· <b>EMS Number:</b>	6.1-04
· <b>Stowage Category</b>	A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 2570 CADMIUM COMPOUND (CADMIUM IODIDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I Substance is not listed.**
- **Seveso category**  
H2 ACUTE TOXIC  
E1 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction:** 23
- **Regulation (EU) No 649/2012 Annex I Part 1**

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**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 3: Acute toxicity – Category 3*

*Carc. 2: Carcinogenicity – Category 2*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

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# Veiligheidsinformatieblad

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## RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

### · 1.1 Productidentificatie

· **Handelsnaam:** cadmiumiodid

· **Artikelnummer:** 12320, 12321

· **CAS-nummer:**

7790-80-9

· **EC-nummer:**

232-223-6

· **Catalogusnummer:**

048-007-00-8

· **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**

Geen verdere relevante informatie verkrijgbaar.

· **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën

· **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**

· **Fabrikant/leverancier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Aurion

Binnenhaven 5

6709 PD Wageningen

The Netherlands

Tel: 31 317 415094

Fax: 31 317 415955

email: info@aurion.nl

· **Inlichtinggevendende sector:** Product safety department

· **1.4 Telefoonnummer voor noodgevallen:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

· **2.1 Indeling van de stof of het mengsel**

· **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS06 doodshoofd met gekruiste beenderen

Acute Tox. 3            H301 Giftig bij inslikken.

Acute Tox. 3            H331 Giftig bij inademing.



GHS08 gezondheidsgevaar

Carc. 2                H351 Verdacht van het veroorzaken van kanker.

STOT RE 2            H373 Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.

(Vervolg op blz. 2)

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GHS09 milieu

*Aquatic Acute 1 H400 Zeer giftig voor in het water levende organismen.*

*Aquatic Chronic 1 H410 Zeer giftig voor in het water levende organismen, met langdurige gevolgen.*

### · 2.2 Etiketteringselementen

#### · Etikettering overeenkomstig Verordening (EG) nr. 1272/2008

*De stof/product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.*

#### · Gevarenpictogrammen



GHS06



GHS08



GHS09

#### · Signaalwoord Gevaar

#### · Gevarenaanduidingen

*H301+H331 Giftig bij inslikken en bij inademing.*

*H351 Verdacht van het veroorzaken van kanker.*

*H373 Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.*

*H410 Zeer giftig voor in het water levende organismen, met langdurige gevolgen.*

#### · Veiligheidsaanbevelingen

*P260 Stof/rook/gas/nevel/damp/spuitnevel niet inademen.*

*P301+P310 NA INSLIKKEN: onmiddellijk een ANTIGIFCENTRUM/arts raadplegen.*

*P321 Specifieke behandeling vereist (zie op dit etiket).*

*P330 De mond spoelen.*

*P405 Achter slot bewaren.*

*P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.*

#### · 2.3 Andere gevaren

#### · Resultaten van PBT- en zPzB-beoordeling

· **PBT:** Niet bruikbaar.

· **zPzB:** Niet bruikbaar.

## RUBRIEK 3: Samenstelling en informatie over de bestanddelen

### · 3.1 Chemische karakterisering: Stoffen

#### · CAS-Nr. omschrijving

7790-80-9 cadmiumiodid

#### · Identificatienummer(s)

· **EC-nummer:** 232-223-6

· **Catalogusnummer:** 048-007-00-8

## RUBRIEK 4: Eerstehulpmaatregelen

### · 4.1 Beschrijving van de eerstehulpmaatregelen

#### · Algemene informatie:

*Verontreinigde kleding onmiddellijk uittrekken.*

*Ademhalingstoestel pas afnemen nadat de verontreinigde kleding verwijderd is.*

*Bij onregelmatige ademhaling of ademstilstand kunstmatige ademhaling toepassen.*

(Vervolg op blz. 3)

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- **Na het inademen:**  
Verse lucht of zuurstof toedienen; deskundige medische hulp inroepen.  
Bij bewusteloosheid ligging en vervoer in stabiele zijligging.
- **Na huidcontact:** Onmiddellijk met water en zeep afwassen en goed naspoelen.
- **Na oogcontact:** Ogen met open ooglid een aantal minuten onder stromend water afspoen en dokter raadplegen.
- **Na inslikken:** Geen braken teweegbrengen en onmiddellijk medische hulp raadplegen.
- **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.
- **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**  
Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**
- **Geschikte blusmiddelen:** Brandblusmaatregelen op omgeving afstemmen.
- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**  
Geen verdere relevante informatie verkrijgbaar.
- **5.3 Advies voor brandweerlieden**
- **Speciale beschermende kleding:** Ademhalingstoestel aantrekken.

### RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures** Niet nodig.
- **6.2 Milieuvorzorgsmaatregelen:**  
Bij indringen in afvalwater of riolering moet de bevoegde instantie gewaarschuwd worden.  
Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.
- **6.3 Insluitings- en reinigingsmethoden en -materiaal:**  
Besmet materiaal zoals afval volgens punt 13 verwijderen.  
Voor voldoende ventilatie zorgen.
- **6.4 Verwijzing naar andere rubrieken**  
Informatie inzake veilig gebruik - zie hoofdstuk 7.  
Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.  
Informatie inzake berging - zie hoofdstuk 13.

### RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**  
Goed stofvrij maken.  
Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.  
Tanks voorzichtig openen en behandelen.  
Stofvorming vermijden.
- **Informatie m.b.t. brand- en ontploffingsgevaar:** Ademhalingstoestellen gereedhouden.
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Geen bijzondere eisen.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:** Tanks ondoordringbaar gesloten houden.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

(Vervolg op blz. 4)

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## RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

· **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.

### · 8.1 Controleparameters

· **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:**

7790-80-9 cadmiumiodid

WGW	Lange termijn waarde: 0,004 mg/m <sup>3</sup> als Cd
-----	---

· **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.

### · 8.2 Maatregelen ter beheersing van blootstelling

· **Persoonlijke beschermingsvoorzieningen:**

· **Algemene beschermings- en gezondheidsmaatregelen:**

Verwijderd houden van eet- en drinkwaren.

Verontreinigde kleding onmiddellijk uittrekken.

Vóór de pauze en aan het einde van werktijd handen wassen.

Beschermende kleding afzonderlijk bewaren.

· **Ademhalingsbescherming:**

Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingsstoestel gebruiken.

· **Handbescherming:**

Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.

Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.

Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

· **Handschoenmateriaal**

De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant.

· **Doordringingstijd van het handschoenmateriaal**

De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

· **Oogbescherming:** Niet noodzakelijk.

## RUBRIEK 9: Fysische en chemische eigenschappen

· **9.1 Informatie over fysische en chemische basiseigenschappen**

· **Algemene gegevens**

· **Voorkomen:**

**Vorm:** Vast

**Kleur:** Niet bepaald.

· **Geur:** Karakteristiek

· **Geurdrempelwaarde:** Niet bepaald.

· **pH-waarde:** Niet bruikbaar.

· **Toestandsverandering**

**Smelt-/vriespunt:** 387 °C

**Beginkookpunt en kooktraject:** 796 °C

· **Vlampunt:** Niet bruikbaar.

(Vervolg op blz. 5)



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· <b>Ontvlambaarheid (vast, gas):</b>	<i>De stof is niet ontvlambaar. Niet bepaald. Niet bruikbaar.</i>
· <b>Ontledingstemperatuur:</b>	<i>Niet bepaald.</i>
· <b>Zelfontbrandingstemperatuur:</b>	<i>Niet bepaald.</i>
· <b>Ontploffingseigenschappen:</b>	<i>Het produkt is niet ontploffingsgevaarlijk.</i>
· <b>Ontploffingsgrenzen:</b>	
<b>Onderste:</b>	<i>Niet bepaald.</i>
<b>Bovenste:</b>	<i>Niet bepaald.</i>
· <b>Dampspanning bij 402 °C:</b>	<i>0,13 hPa</i>
· <b>Dichtheid bij 20 °C:</b>	<i>5,67 g/cm<sup>3</sup></i>
· <b>Stortgewicht:</b>	<i>2.100 kg/m<sup>3</sup></i>
· <b>Relatieve dichtheid</b>	<i>Niet bepaald.</i>
· <b>Dampdichtheid</b>	<i>Niet bruikbaar.</i>
· <b>Verdampingssnelheid</b>	<i>Niet bruikbaar.</i>
· <b>Oplosbaarheid in/mengbaarheid met Water bij 20 °C:</b>	<i>798 g/l</i>
· <b>Verdelingscoëfficiënt: n-octanol/water:</b>	<i>Niet bepaald.</i>
· <b>Viscositeit</b>	
<b>Dynamisch:</b>	<i>Niet bruikbaar.</i>
<b>Kinematisch:</b>	<i>Niet bruikbaar.</i>
· <b>9.2 Overige informatie</b>	<i>Geen verdere relevante informatie verkrijgbaar.</i>

## RUBRIEK 10: Stabiliteit en reactiviteit

- **10.1 Reactiviteit** *Geen verdere relevante informatie verkrijgbaar.*
- **10.2 Chemische stabiliteit**
- **Thermische afbraak / te vermijden omstandigheden:** *Geen afbraak bij gebruik volgens voorschrift.*
- **10.3 Mogelijke gevaarlijke reacties** *Geen gevaarlijke reacties bekend.*
- **10.4 Te vermijden omstandigheden** *Geen verdere relevante informatie verkrijgbaar.*
- **10.5 Chemisch op elkaar inwerkende materialen:** *Geen verdere relevante informatie verkrijgbaar.*
- **10.6 Gevaarlijke ontledingsproducten:** *Geen gevaarlijke ontbindingsproducten bekend.*

## RUBRIEK 11: Toxicologische informatie

### 11.1 Informatie over toxicologische effecten

#### Acute toxiciteit

*Giftig bij inslikken en bij inademing.*

#### Indelingsrelevantie LD/LC50-waarden:

Oraal	LD50	166 mg/kg (mouse)
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#### Primaire aandoening:

- **Huidcorrosie/-irritatie** *Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.*
- **Ernstig oogletsel/oogirritatie** *Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.*
- **Sensibilisatie van de luchtwegen/de huid**  
*Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.*

(Vervolg op blz. 6)



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(Vervolg van blz. 5)

- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Kankerverwekkendheid**  
Verdacht van het veroorzaken van kanker.
- **Giftigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij herhaalde blootstelling**  
Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

### RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Ecotoxische effecten:**
- **Opmerking:** Zeer giftig voor vissen.
- **Verdere ecologische informatie:**
- **Algemene informatie:**  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)  
Gevaar voor water klasse 3 (D) (Lijstclassificatie): gevaar voor water groot  
Niet lozen in grondwater, oppervlaktewater of riolering, ook niet in kleine hoeveelheden.  
Gevaar voor drinkwater zelfs bij het uitlopen van zeer geringe hoeveelheden in de ondergrond.  
In oppervlaktewater ook giftig voor vissen en plankton.  
zeer giftig voor in het water levende organismen
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terecht komen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.
- **Aanbevolen reinigingsmiddel:** Water, eventueel met toevoeging van reinigingsmiddelen.

### RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.1 VN-nummer**
- **ADR, IMDG, IATA** UN2570
- **14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN**
- **ADR** 2570 CADMIUMVERBINDING (cadmiumiodid), MILIEUGEVAARLIJK
- **IMDG** CADMIUM COMPOUND, MARINE POLLUTANT

(Vervolg op blz. 7)

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· <b>IATA</b>	<b>CADMIUM COMPOUND</b>
· <b>14.3 Transportgevarenklasse(n)</b>	
· <b>ADR, IMDG</b>	
 	
· <b>klasse</b>	6.1 Giftige stoffen
· <b>Etiket</b>	6.1
· <b>IATA</b>	
	
· <b>Class</b>	6.1 Giftige stoffen
· <b>Label</b>	6.1
· <b>14.4 Verpakkingsgroep:</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Milieugevaren:</b>	Milieugevaarlijke vaste stof; Marine Pollutant
· <b>Marine pollutant:</b>	Symbool (vis en boom)
· <b>Bijzondere kenmerking (ADR):</b>	Symbool (vis en boom)
· <b>14.6 Bijzondere voorzorgen voor de gebruiker</b>	Waarschuwing: Giftige stoffen
· <b>Kemler-getal:</b>	60
· <b>EMS-nummer:</b>	6.1-04
· <b>Stowage Category</b>	A
· <b>14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code</b>	Niet bruikbaar.
· <b>Transport/verdere gegevens:</b>	
· <b>ADR</b>	
· <b>Beperkte hoeveelheden (LQ)</b>	5 kg
· <b>Uitgezonderde hoeveelheden (EQ)</b>	Code: E1 Grootste netto hoeveelheid per binnenverpakking: 30 g Grootste netto hoeveelheid per buitenverpakking: 1000 g
· <b>Vervoerscategorie</b>	2
· <b>Tunnelbeperkingscode</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>VN "Model Regulation":</b>	UN 2570 CADMIUMVERBINDING (CADMIUMIODID), 6.1, III, MILIEUGEVAARLIJK

NL

(Vervolg op blz. 8)

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### RUBRIEK 15: Regelgeving

- **15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel**
- **SZW-lijst van kankerverwekkende stoffen** De stof is niet aanwezig.
- **SZW-lijst van mutagene stoffen** De stof is niet aanwezig.
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid 2**
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling 2**
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding x**
- **Richtlijn 2012/18/EU**
- **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** De stof is niet aanwezig.
- **Seveso-categorie**  
H2 ACUUT TOXISCH  
E1 Gevaar voor het aquatisch milieu
- **Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen 50 t**
- **Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen 200 t**
- **Verordening (EG) nr. 1907/2006 BIJLAGE XVII Beperkingsvoorwaarden: 23**
- **Verordening (EU) Nr. 649/2012 Annex I Part 1**
- **Nationale voorschriften:**
- **Gevaarklasse v. water:**  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)
- **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

### RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

- **Afkortingen en acroniemen:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 3: Acute toxiciteit – Categorie 3  
Carc. 2: Kankerverwekkendheid – Categorie 2  
STOT RE 2: Specifieke doelorgaantoxiciteit bij herhaalde blootstelling – Categorie 2  
Aquatic Acute 1: Gevaar voor het aquatisch milieu - acuut aquatisch gevaar – Categorie 1  
Aquatic Chronic 1: Gevaar voor het aquatisch milieu - aquatisch gevaar op lange termijn – Categorie 1

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

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### RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

- **1.1 Identificateur de produit**
- **Nom du produit:** iodure de cadmium
- **Code du produit:** 12320, 12321
- **No CAS:**  
7790-80-9
- **Numéro CE:**  
232-223-6
- **Numéro index:**  
048-007-00-8
- **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**  
Pas d'autres informations importantes disponibles.
- **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires
- **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**
- **Producteur/fournisseur:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Service chargé des renseignements:** Product safety department
- **1.4 Numéro d'appel d'urgence:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### RUBRIQUE 2: Identification des dangers

- **2.1 Classification de la substance ou du mélange**
- **Classification selon le règlement (CE) n° 1272/2008**



GHS06 tête de mort sur deux tibias

Acute Tox. 3      H301 Toxique en cas d'ingestion.  
Acute Tox. 3      H331 Toxique par inhalation.



GHS08 danger pour la santé

Carc. 2      H351 Susceptible de provoquer le cancer.  
STOT RE 2      H373 Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.



GHS09 environnement

Aquatic Acute 1      H400 Très toxique pour les organismes aquatiques.  
Aquatic Chronic 1      H410 Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** La substance est classifiée et étiquetée selon le règlement CLP.

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**Nom du produit: iodure de cadmium**

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### · Pictogrammes de danger



GHS06    GHS08    GHS09

### · Mention d'avertissement Danger

#### · Mentions de danger

H301+H331 Toxique par ingestion ou par inhalation.

H351            Susceptible de provoquer le cancer.

H373            Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.

H410            Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.

#### · Conseils de prudence

P260            Ne pas respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols.

P301+P310 EN CAS D'INGESTION: Appeler immédiatement un CENTRE ANTIPOISON/un médecin.

P321            Traitement spécifique (voir sur cette étiquette).

P330            Rincer la bouche.

P405            Garder sous clef.

P501            Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/internationale.

#### · 2.3 Autres dangers

#### · Résultats des évaluations PBT et vPvB

· **PBT:** Non applicable.

· **vPvB:** Non applicable.

## RUBRIQUE 3: Composition/informations sur les composants

### · 3.1 Caractérisation chimique: Substances

#### · No CAS Désignation

7790-80-9 iodure de cadmium

#### · Code(s) d'identification

· Numéro CE: 232-223-6

· Numéro index: 048-007-00-8

## RUBRIQUE 4: Premiers secours

### · 4.1 Description des premiers secours

#### · Remarques générales:

Enlever immédiatement les vêtements contaminés par le produit.

Ne retirer la protection respiratoire qu'après avoir retiré les vêtements contaminés.

Respiration artificielle dans le cas d'une respiration irrégulière ou d'un arrêt respiratoire.

#### · Après inhalation:

Donner de l'air frais ou de l'oxygène; demander d'urgence une assistance médicale.

En cas d'inconscience, coucher et transporter la personne en position latérale stable.

#### · Après contact avec la peau: Laver immédiatement à l'eau et au savon et bien rincer.

#### · Après contact avec les yeux:

Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières et consulter un médecin.

#### · Après ingestion: Ne pas faire vomir, demander d'urgence une assistance médicale.

#### · 4.2 Principaux symptômes et effets, aigus et différés Pas d'autres informations importantes disponibles.

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- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**  
Pas d'autres informations importantes disponibles.

### RUBRIQUE 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:** Adapter les mesures d'extinction d'incendie à l'environnement.
- **5.2 Dangers particuliers résultant de la substance ou du mélange**  
Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Porter un appareil de protection respiratoire.

### RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**  
En cas de pénétration dans les eaux ou les égouts, avertir les autorités compétentes.  
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**  
Evacuer les matériaux contaminés en tant que déchets conformément au point 13.  
Assurer une aération suffisante.
- **6.4 Référence à d'autres rubriques**  
Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.  
Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.  
Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

### RUBRIQUE 7: Manipulation et stockage

- **7.1 Précautions à prendre pour une manipulation sans danger**  
Bien dépoussiérer.  
Veiller à une bonne ventilation/aspiration du poste de travail.  
Ouvrir et manipuler les récipients avec précaution.  
Eviter la formation de poussière.
- **Préventions des incendies et des explosions:** Tenir des appareils de protection respiratoire prêts.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
- **Stockage:**
- **Exigences concernant les lieux et conteneurs de stockage:** Aucune exigence particulière.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:** Tenir les emballages hermétiquement fermés.
- **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

### RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

- **Indications complémentaires pour l'agencement des installations techniques:**  
Sans autre indication, voir point 7.

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### · 8.1 Paramètres de contrôle

#### · Composants présentant des valeurs-seuil à surveiller par poste de travail:

##### 7790-80-9 iodure de cadmium

VME	Valeur à long terme: 0,05 mg/m <sup>3</sup> en Cd; C1, C2 ou C3
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#### · Remarques supplémentaires:

Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.

### · 8.2 Contrôles de l'exposition

#### · Equipement de protection individuel:

#### · Mesures générales de protection et d'hygiène:

Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.

Retirer immédiatement les vêtements souillés ou humectés.

Se laver les mains avant les pauses et en fin de travail.

Conserver à part les vêtements de protection.

#### · Protection respiratoire:

En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.

#### · Protection des mains:

Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.

À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.

Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

#### · Matériau des gants

Le choix de gants appropriés ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.

#### · Temps de pénétration du matériau des gants

Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.

#### · Protection des yeux: Pas nécessaire.

## RUBRIQUE 9: Propriétés physiques et chimiques

### · 9.1 Informations sur les propriétés physiques et chimiques essentielles

#### · Indications générales

#### · Aspect:

Forme: Solide

Couleur: Non déterminé.

· Odeur: Caractéristique

· Seuil olfactif: Non déterminé.

· valeur du pH: Non applicable.

#### · Changement d'état

Point de fusion/point de congélation: 387 °C

Point initial d'ébullition et intervalle d'ébullition: 796 °C

· Point d'éclair: Non applicable.

· Inflammabilité (solide, gaz): La substance n'est pas inflammable.

Non déterminé.

Non applicable.

· Température de décomposition: Non déterminé.

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· <b>Température d'auto-inflammabilité:</b>	<i>Non déterminé.</i>
· <b>Propriétés explosives:</b>	<i>Le produit n'est pas explosif.</i>
· <b>Limites d'explosion:</b> <i>Inférieure:</i> <i>Supérieure:</i>	<i>Non déterminé.</i> <i>Non déterminé.</i>
· <b>Pression de vapeur à 402 °C:</b>	<i>0,13 hPa</i>
· <b>Densité à 20 °C:</b>	<i>5,67 g/cm<sup>3</sup></i>
· <b>Masse volumique:</b> · <b>Densité relative</b> · <b>Densité de vapeur:</b> · <b>Taux d'évaporation:</b>	<i>2.100 kg/m<sup>3</sup></i> <i>Non déterminé.</i> <i>Non applicable.</i> <i>Non applicable.</i>
· <b>Solubilité dans/miscibilité avec l'eau à 20 °C:</b>	<i>798 g/l</i>
· <b>Coefficient de partage: n-octanol/eau:</b>	<i>Non déterminé.</i>
· <b>Viscosité:</b> <i>Dynamique:</i> <i>Cinématique:</i>	<i>Non applicable.</i> <i>Non applicable.</i>
· <b>9.2 Autres informations</b>	<i>Pas d'autres informations importantes disponibles.</i>

### RUBRIQUE 10: Stabilité et réactivité

- **10.1 Réactivité** *Pas d'autres informations importantes disponibles.*
- **10.2 Stabilité chimique**
- **Décomposition thermique/conditions à éviter:** *Pas de décomposition en cas d'usage conforme.*
- **10.3 Possibilité de réactions dangereuses** *Aucune réaction dangereuse connue.*
- **10.4 Conditions à éviter** *Pas d'autres informations importantes disponibles.*
- **10.5 Matières incompatibles:** *Pas d'autres informations importantes disponibles.*
- **10.6 Produits de décomposition dangereux:** *Pas de produits de décomposition dangereux connus*

### RUBRIQUE 11: Informations toxicologiques

#### · **11.1 Informations sur les effets toxicologiques**

- **Toxicité aiguë**  
*Toxique par ingestion ou par inhalation.*

#### · **Valeurs LD/LC50 déterminantes pour la classification:**

<i>Oral</i>	<i>LD50</i>	<i>166 mg/kg (souris)</i>
-------------	-------------	---------------------------

- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée**  
*Compte tenu des données disponibles, les critères de classification ne sont pas remplis.*
- **Lésions oculaires graves/irritation oculaire**  
*Compte tenu des données disponibles, les critères de classification ne sont pas remplis.*
- **Sensibilisation respiratoire ou cutanée**  
*Compte tenu des données disponibles, les critères de classification ne sont pas remplis.*
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**
- **Mutagenicité sur les cellules germinales**  
*Compte tenu des données disponibles, les critères de classification ne sont pas remplis.*

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# Fiche de données de sécurité

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- **Cancérogénicité**  
Susceptible de provoquer le cancer.
- **Toxicité pour la reproduction**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition unique**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition répétée**  
Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

### RUBRIQUE 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Effets écotoxiques:**
- **Remarque:** Très toxique chez les poissons.
- **Autres indications écologiques:**
- **Indications générales:**  
Catégorie de pollution des eaux 3 (D) (classification selon liste): très polluant  
Ne pas laisser pénétrer dans la nappe phréatique, les eaux ou les canalisations, même pas en petite quantité.  
Danger pour l'eau potable dès fuite d'une quantité minimale dans le sous-sol.  
Dans les eaux, également toxique pour les poissons et le plancton.  
Très toxique pour organismes aquatiques.
- **12.5 Résultats des évaluations PBT et VPVB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.
- **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

### RUBRIQUE 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.
- **Produit de nettoyage recommandé:** Eau, éventuellement avec des produits de nettoyage

### RUBRIQUE 14: Informations relatives au transport

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 Numéro ONU</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | UN2570   |
| <ul style="list-style-type: none"> <li>· <b>14.2 Désignation officielle de transport de l'ONU</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | 2570 COMPOSÉ DU CADMIUM (iodure de cadmium),<br>DANGEREUX POUR L'ENVIRONNEMENT<br>CADMIUM COMPOUND, MARINE POLLUTANT<br>CADMIUM COMPOUND |

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· **14.3 Classe(s) de danger pour le transport**

· **ADR, IMDG**



· **Classe** 6.1 Matières toxiques.  
 · **Étiquette** 6.1

· **IATA**



· **Class** 6.1 Matières toxiques.  
 · **Label** 6.1

· **14.4 Groupe d'emballage**

· **ADR, IMDG, IATA** III

· **14.5 Dangers pour l'environnement:**

· **Marine Pollutant:** Matière dangereuse du point de vue de l'environnement, solide; Marine Pollutant  
 · **Marquage spécial (ADR):** Signe conventionnel (poisson et arbre)

· **14.6 Précautions particulières à prendre par l'utilisateur**

· **Indice Kemler:** Attention: Matières toxiques.  
 · **No EMS:** 60  
 · **Stowage Category** 6.1-04  
 A

· **14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC**

Non applicable.

· **Indications complémentaires de transport:**

· **ADR**

· **Quantités limitées (LQ)** 5 kg  
 · **Quantités exceptées (EQ)** Code: E1  
 Quantité maximale nette par emballage intérieur: 30 g  
 Quantité maximale nette par emballage extérieur: 1000 g  
 8  
 · **Catégorie de transport** 2  
 · **Code de restriction en tunnels** E

· **IMDG**

· **Limited quantities (LQ)** 5 kg  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 g  
 Maximum net quantity per outer packaging: 1000 g

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· "Règlement type" de l'ONU:	UN 2570 COMPOSÉ DU CADMIUM (IODURE DE CADMIUM), 6.1, III, DANGEREUX POUR L'ENVIRONNEMENT
------------------------------	--

### RUBRIQUE 15: Informations relatives à la réglementation

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
- Directive 2012/18/UE
- **Substances dangereuses désignées - ANNEXE I** la substance n'est pas comprise
- **Catégorie SEVESO**  
H2 TOXICITÉ AIGUË  
E1 Danger pour l'environnement aquatique
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas 50 t**
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut 200 t**
- **RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII** Conditions de limitation: 23
- **Règlement (CE) N° 649/2012 Annex I Part 1**
- **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

### RUBRIQUE 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

- **Acronymes et abréviations:**  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 3: Toxicité aiguë – Catégorie 3  
 Carc. 2: Cancérogénicité – Catégorie 2  
 STOT RE 2: Toxicité spécifique pour certains organes cibles (exposition répétée) – Catégorie 2  
 Aquatic Acute 1: Dangers pour le milieu aquatique- toxicité aiguë pour le milieu aquatique – Catégorie 1  
 Aquatic Chronic 1: Dangers pour le milieu aquatique- toxicité à long terme pour le milieu aquatique – Catégorie 1

**Sicherheitsdatenblatt**  
gemäß 1907/2006/EG, Artikel 31

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überarbeitet am: 12.12.2018

### ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

· **1.1 Produktidentifikator**

· **Handelsname:** Cadmiumiodid

· **Artikelnummer:** 12320, 12321

· **CAS-Nummer:**

7790-80-9

· **EG-Nummer:**

232-223-6

· **Indexnummer:**

048-007-00-8

· **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**

Keine weiteren relevanten Informationen verfügbar.

· **Verwendung des Stoffes / des Gemisches** Laborchemikalien

· **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**

· **Hersteller/Lieferant:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Science Services GmbH

Unterhachinger Str. 75

81737 München Germany

Tel: +49(0)89 18 93 668-0

safety@scienceservices.de

Deutschland: +49 (0)89 19240, 24h Giftnotruf Munchen, www.toxinfo.org

Osterreich: +43 1406 43 43, Gesundheit Osterreich GmbH, 24 h

· **Auskunftgebender Bereich:** Product safety department

· **1.4 Notrufnummer:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### ABSCHNITT 2: Mögliche Gefahren

· **2.1 Einstufung des Stoffs oder Gemischs**

· **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS06 Totenkopf mit gekreuzten Knochen

Acute Tox. 3

H301 Giftig bei Verschlucken.

Acute Tox. 3

H331 Giftig bei Einatmen.



GHS08 Gesundheitsgefahr

Carc. 2

H351 Kann vermutlich Krebs erzeugen.

STOT RE 2

H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.

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GHS09 Umwelt

*Aquatic Acute 1 H400 Sehr giftig für Wasserorganismen.*

*Aquatic Chronic 1 H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.*

- **2.2 Kennzeichnungselemente**
- **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**  
*Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.*
- **Gefahrenpiktogramme**



GHS06



GHS08



GHS09

- **Signalwort Gefahr**
- **Gefahrenhinweise**
  - H301+H331 Giftig bei Verschlucken oder Einatmen.*
  - H351 Kann vermutlich Krebs erzeugen.*
  - H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.*
  - H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.*
- **Sicherheitshinweise**
  - P260 Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.*
  - P301+P310 BEI VERSCHLUCKEN: Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.*
  - P321 Besondere Behandlung (siehe auf diesem Kennzeichnungsetikett).*
  - P330 Mund ausspülen.*
  - P405 Unter Verschluss aufbewahren.*
  - P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.*
- **2.3 Sonstige Gefahren**
- **Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.

### ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

- **3.1 Chemische Charakterisierung: Stoffe**
- **CAS-Nr. Bezeichnung**  
*7790-80-9 Cadmiumiodid*
- **Identifikationsnummer(n)**
- **EG-Nummer:** 232-223-6
- **Indexnummer:** 048-007-00-8

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
- **Allgemeine Hinweise:**  
*Mit Produkt verunreinigte Kleidungsstücke unverzüglich entfernen.*  
*Atemschutz erst nach Entfernen verunreinigter Kleidungsstücke abnehmen.*  
*Bei unregelmäßiger Atmung oder Atemstillstand künstliche Beatmung.*

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- **Nach Einatmen:**  
Frischlucht- oder Sauerstoffzufuhr; ärztliche Hilfe in Anspruch nehmen.  
Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.
- **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.
- **Nach Augenkontakt:**  
Augen bei geöffnetem Lidspalt mehrere Minuten unter fließendem Wasser abspülen und Arzt konsultieren.
- **Nach Verschlucken:** Kein Erbrechen herbeiführen, sofort ärztliche Hilfe zuziehen.
- **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**  
Keine weiteren relevanten Informationen verfügbar.
- **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**  
Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**
- **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**  
Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Atemschutzgerät anlegen.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**  
Nicht erforderlich.
- **6.2 Umweltschutzmaßnahmen:**  
Bei Eindringen in Gewässer oder Kanalisation zuständige Behörden benachrichtigen.  
Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**  
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.  
Für ausreichende Lüftung sorgen.
- **6.4 Verweis auf andere Abschnitte**  
Informationen zur sicheren Handhabung siehe Abschnitt 7.  
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.  
Informationen zur Entsorgung siehe Abschnitt 13.

### ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung**  
Gute Entstaubung.  
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.  
Behälter mit Vorsicht öffnen und handhaben.  
Staubbildung vermeiden.
- **Hinweise zum Brand- und Explosionsschutz:** Atemschutzgeräte bereithalten.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:** Behälter dicht geschlossen halten.
- **Lagerklasse:**
- **Klassifizierung nach Betriebsicherheitsverordnung (BetrSichV):** -

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· **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

· **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.

· **8.1 Zu überwachende Parameter**

· **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**

7790-80-9 Cadmiumiodid

MAK | einatembare Fraktion; vgl. Abschn. XII

· **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

· **8.2 Begrenzung und Überwachung der Exposition**

· **Persönliche Schutzausrüstung:**

· **Allgemeine Schutz- und Hygienemaßnahmen:**

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.

Beschmutzte, getränkte Kleidung sofort ausziehen.

Vor den Pausen und bei Arbeitsende Hände waschen.

Getrennte Aufbewahrung der Schutzkleidung.

· **Atemschutz:**

Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition unluftunabhängiges Atemschutzgerät verwenden.

· **Handschutz:**

Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein.

Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

· **Handschuhmaterial**

Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.

· **Durchdringungszeit des Handschuhmaterials**

Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

· **Augenschutz:** Nicht erforderlich.

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

· **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**

· **Allgemeine Angaben**

· **Aussehen:**

Form: Fest

Farbe: Nicht bestimmt.

· **Geruch:** Charakteristisch

· **Geruchsschwelle:** Nicht bestimmt.

· **pH-Wert:** Nicht anwendbar.

· **Zustandsänderung**

Schmelzpunkt/Gefrierpunkt: 387 °C

Siedebeginn und Siedebereich: 796 °C

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· <b>Flammpunkt:</b>	Nicht anwendbar.
· <b>Entzündbarkeit (fest, gasförmig):</b>	Der Stoff ist nicht entzündlich. Nicht bestimmt. Nicht anwendbar.
· <b>Zersetzungstemperatur:</b>	Nicht bestimmt.
· <b>Selbstentzündungstemperatur:</b>	Nicht bestimmt.
· <b>Explosive Eigenschaften:</b>	Das Produkt ist nicht explosionsgefährlich.
· <b>Explosionsgrenzen:</b>	
<b>Untere:</b>	Nicht bestimmt.
<b>Obere:</b>	Nicht bestimmt.
· <b>Dampfdruck bei 402 °C:</b>	0,13 hPa
· <b>Dichte bei 20 °C:</b>	5,67 g/cm <sup>3</sup>
· <b>Schüttdichte:</b>	2.100 kg/m <sup>3</sup>
· <b>Relative Dichte</b>	Nicht bestimmt.
· <b>Dampfdichte</b>	Nicht anwendbar.
· <b>Verdampfungsgeschwindigkeit</b>	Nicht anwendbar.
· <b>Löslichkeit in / Mischbarkeit mit Wasser bei 20 °C:</b>	798 g/l
· <b>Verteilungskoeffizient: n-Octanol/Wasser:</b>	Nicht bestimmt.
· <b>Viskosität:</b>	
<b>Dynamisch:</b>	Nicht anwendbar.
<b>Kinematisch:</b>	Nicht anwendbar.
· <b>9.2 Sonstige Angaben</b>	Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**  
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität**  
Giftig bei Verschlucken oder Einatmen.

· <b>Einstufungsrelevante LD/LC50-Werte:</b>		
Oral	LD50	166 mg/kg (mouse)

- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Schwere Augenschädigung/-reizung** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

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- **Sensibilisierung der Atemwege/Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Karzinogenität**  
Kann vermutlich Krebs erzeugen.
- **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**  
Kann die Organe schädigen bei längerer oder wiederholter Exposition.
- **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

### ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Ökotoxische Wirkungen:**
- **Bemerkung:** Sehr giftig für Fische.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 3 (Listeneinstufung): stark wassergefährdend  
Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen, auch nicht in kleinen Mengen.  
Trinkwassergefährdung bereits beim Auslaufen geringster Mengen in den Untergrund.  
In Gewässern auch giftig für Fische und Plankton.  
sehr giftig für Wasserorganismen
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.
- **Empfohlenes Reinigungsmittel:** Wasser, gegebenenfalls mit Zusatz von Reinigungsmitteln.

### ABSCHNITT 14: Angaben zum Transport

- |  |  |
|--|--|
| · <b>14.1 UN-Nummer</b>                            |  |
| · <b>ADR, IMDG, IATA</b>                           | UN2570   |
| · <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b> |  |
| · <b>ADR</b>                                       | 2570 CADMIUMVERBINDUNG (Cadmiumiodid),<br>UMWELTGEFÄHRDEND |
| · <b>IMDG</b>                                      | CADMIUM COMPOUND, MARINE POLLUTANT                         |

(Fortsetzung auf Seite 7)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 12.12.2018

überarbeitet am: 12.12.2018

**Handelsname:** Cadmiumiodid

(Fortsetzung von Seite 6)

· <b>IATA</b>	<b>CADMIUM COMPOUND</b>
· <b>14.3 Transportgefahrenklassen</b>	
· <b>ADR, IMDG</b>	
· <b>Klasse</b>	6.1 Giftige Stoffe
· <b>Gefahrzettel</b>	6.1
· <b>IATA</b>	
· <b>Class</b>	6.1 Giftige Stoffe
· <b>Label</b>	6.1
· <b>14.4 Verpackungsgruppe</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Umweltgefahren:</b>	Umweltgefährdender Stoff, fest; Marine Pollutant
· <b>Marine pollutant:</b>	Symbol (Fisch und Baum)
· <b>Besondere Kennzeichnung (ADR):</b>	Symbol (Fisch und Baum)
· <b>14.6 Besondere Vorsichtsmaßnahmen für den Verwender</b>	Achtung: Giftige Stoffe
· <b>Kemler-Zahl:</b>	60
· <b>EMS-Nummer:</b>	6.1-04
· <b>Stowage Category</b>	A
· <b>14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code</b>	Nicht anwendbar.
· <b>Transport/weitere Angaben:</b>	
· <b>ADR</b>	
· <b>Begrenzte Menge (LQ)</b>	5 kg
· <b>Freigestellte Mengen (EQ)</b>	Code: E1 Höchste Nettomenge je Innenverpackung: 30 g Höchste Nettomenge je Außenverpackung: 1000 g
· <b>Beförderungskategorie</b>	2
· <b>Tunnelbeschränkungscode</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 2570 CADMIUMVERBINDUNG (CADMIUMIODID), 6.1, III, UMWELTGEFÄHRDEND

DE

(Fortsetzung auf Seite 8)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 12.12.2018

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**Handelsname: Cadmiumiodid**

(Fortsetzung von Seite 7)

### ABSCHNITT 15: Rechtsvorschriften

- **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**
  - **Richtlinie 2012/18/EU**
  - **Namentlich aufgeführte gefährliche Stoffe - ANHANG I** Der Stoff ist nicht enthalten.
  - **Seveso-Kategorie**  
H2 AKUT TOXISCH  
E1 Gewässergefährdend
  - **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 50 t**
  - **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 200 t**
  - **VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII Beschränkungsbedingungen: 23**
  - **Verordnung (EU) Nr. 649/2012 Annex I Part 1**
  - **Nationale Vorschriften:**
  - **Technische Anleitung Luft:**
- | Klasse | Anteil in % |
|--------|-------------|
| I      | 100,0       |
- **Wassergefährdungsklasse: WGK 3 (Listeneinstufung): stark wassergefährdend.**
  - **Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen**  
Das Produkt unterliegt der Anlage 2 der Chemikalienverbotsverordnung (ChemVerbotsV) - Anforderungen in Bezug auf die Abgabe
  - **15.2 Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.**

### ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

- **Abkürzungen und Akronyme:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 3: Akute Toxizität – Kategorie 3  
Carc. 2: Karzinogenität – Kategorie 2  
STOT RE 2: Spezifische Zielorgan-Toxizität (wiederholte Exposition) – Kategorie 2  
Aquatic Acute 1: Gewässergefährdend - akut gewässergefährdend – Kategorie 1  
Aquatic Chronic 1: Gewässergefährdend - langfristig gewässergefährdend – Kategorie 1

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 12.12.2018

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### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** cadmio ioduro

· **Articolo numero:** 12320, 12321

· **Numero CAS:**

7790-80-9

· **Numeri CE:**

232-223-6

· **Numero indice:**

048-007-00-8

· **1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**

Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: www.sichim.com

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS06 teschio e tibie incrociate

Acute Tox. 3

H301 Tossico se ingerito.

Acute Tox. 3

H331 Tossico se inalato.



GHS08 pericolo per la salute

Carc. 2

H351 Sospettato di provocare il cancro.

STOT RE 2

H373 Può provocare danni agli organi in caso di esposizione prolungata o ripetuta.



GHS09 ambiente

(continua a pagina 2)

IT

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**Denominazione commerciale: cadmio ioduro**

(Segue da pagina 1)

*Aquatic Acute 1 H400 Molto tossico per gli organismi acquatici.**Aquatic Chronic 1 H410 Molto tossico per gli organismi acquatici con effetti di lunga durata.***2.2 Elementi dell'etichetta****Etichettatura secondo il regolamento (CE) n. 1272/2008***La sostanza è classificata ed etichettata conformemente al regolamento CLP.***Pittogrammi di pericolo**

GHS06 GHS08 GHS09

**Avvertenza Pericolo****Indicazioni di pericolo***H301+H331 Tossico se ingerito o inalato.**H351 Sospettato di provocare il cancro.**H373 Può provocare danni agli organi in caso di esposizione prolungata o ripetuta.**H410 Molto tossico per gli organismi acquatici con effetti di lunga durata.***Consigli di prudenza***P260 Non respirare la polvere/i fumi/i gas/la nebbia/i vapori/gli aerosol.**P301+P310 IN CASO DI INGESTIONE: contattare immediatamente un CENTRO ANTIVELENI/un medico.**P321 Trattamento specifico (vedere su questa etichetta).**P330 Sciacquare la bocca.**P405 Conservare sotto chiave.**P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.***2.3 Altri pericoli****Risultati della valutazione PBT e vPvB****PBT:** Non applicabile.**vPvB:** Non applicabile.**SEZIONE 3: Composizione/informazioni sugli ingredienti****3.1 Caratteristiche chimiche: Sostanze****Numero CAS***7790-80-9 cadmio ioduro***Numerali di identificazione****Numerali CE:** 232-223-6**Numero indice:** 048-007-00-8**SEZIONE 4: Misure di primo soccorso****4.1 Descrizione delle misure di primo soccorso****Indicazioni generali:***Allontanare immediatamente gli abiti contaminati dal prodotto.**Levarsi la maschera protettiva solamente dopo aver tolto gli abiti contaminati.**In caso di respirazione irregolare o di blocco respiratorio praticare la respirazione artificiale.***Inalazione:***Portare il soggetto in zona ben areata o somministrare ossigeno; chiedere l'intervento di un medico.**Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.***Contatto con la pelle:** Lavare immediatamente con acqua e sapone sciacquando accuratamente.

(continua a pagina 3)

**Scheda di dati di sicurezza**  
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- **Contatto con gli occhi:**  
*Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte e consultare il medico.*
- **Ingestione:** *Non provocare il vomito, chiamare subito il medico.*
- **4.2 Principali sintomi ed effetti, sia acuti che ritardati** *Non sono disponibili altre informazioni.*
- **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**  
*Non sono disponibili altre informazioni.*

### **SEZIONE 5: Misure antincendio**

- **5.1 Mezzi di estinzione**
- **Mezzi di estinzione idonei:** *Adottare provvedimenti antiincendio nei dintorni della zona colpita.*
- **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** *Non sono disponibili altre informazioni.*
- **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**
- **Mezzi protettivi specifici:** *Indossare il respiratore.*

### **SEZIONE 6: Misure in caso di rilascio accidentale**

- **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza** *Non necessario.*
- **6.2 Precauzioni ambientali:**  
*In caso di infiltrazione nei corpi d'acqua o nelle fognature avvertire le autorità competenti.  
Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.*
- **6.3 Metodi e materiali per il contenimento e per la bonifica:**  
*Smaltimento del materiale contaminato conformemente al punto 13.  
Provvedere ad una sufficiente areazione.*
- **6.4 Riferimento ad altre sezioni**  
*Per informazioni relative ad un manipolazione sicura, vedere capitolo 7.  
Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.  
Per informazioni relative allo smaltimento vedere Capitolo 13.*

### **SEZIONE 7: Manipolazione e immagazzinamento**

- **7.1 Precauzioni per la manipolazione sicura**  
*Accurata captazione delle polveri.  
Accurata ventilazione/aspirazione nei luoghi di lavoro.  
Aprire e manipolare i recipienti con cautela.  
Evitare la formazione di polvere.*
- **Indicazioni in caso di incendio ed esplosione:** *Tener pronto il respiratore.*
- **7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** *Non sono richiesti requisiti particolari.*
- **Indicazioni sullo stoccaggio misto:** *Non necessario.*
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:** *Mantenere i recipienti ermeticamente chiusi.*
- **7.3 Usi finali particolari** *Non sono disponibili altre informazioni.*

### **SEZIONE 8: Controllo dell'esposizione/protezione individuale**

- **Ulteriori indicazioni sulla struttura di impianti tecnici:** *Nessun dato ulteriore, vedere punto 7.*
- **8.1 Parametri di controllo**
- **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:** *Non Necessario.*

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**Scheda di dati di sicurezza**  
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**Denominazione commerciale:** *cadmio ioduro*

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**Componenti con valori limite biologici:**

**7790-80-9 cadmio ioduro**

**IBE** 5 µg/g creatinina  
Campioni: urine  
Momento del prelievo: non critico  
Indicatore biologico: cadmio

5 µg/l  
Campioni: sangue  
Momento del prelievo: non critico  
Indicatore biologico: cadmio

• **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.

• **8.2 Controlli dell'esposizione**

• **Mezzi protettivi individuali:**

• **Norme generali protettive e di igiene del lavoro:**

Tenere lontano da cibo, bevande e foraggi.  
Togliere immediatamente gli abiti contaminati.  
Lavarsi le mani prima dell'intervallo o a lavoro terminato.  
Custodire separatamente l'equipaggiamento protettivo.

• **Maschera protettiva:**

Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.

• **Guanti protettivi:**

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.  
A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.  
Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

• **Materiale dei guanti**

La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro.

• **Tempo di permeazione del materiale dei guanti**

Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.

• **Occhiali protettivi:** Non necessario.

**SEZIONE 9: Proprietà fisiche e chimiche**

• **9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali**

• **Indicazioni generali**

• **Aspetto:**

**Forma:** Solido  
**Colore:** Non definito.  
**Odore:** Caratteristico  
**Soglia olfattiva:** Non definito.

• **valori di pH:** Non applicabile.

• **Cambiamento di stato**

**Punto di fusione/punto di congelamento:** 387 °C  
**Punto di ebollizione iniziale e intervallo di ebollizione:** 796 °C

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· <b>Punto di infiammabilità:</b>	<i>Non applicabile.</i>
· <b>Infiammabilità (solidi, gas):</b>	<i>Sostanza non infiammabile. Non definito. Non applicabile.</i>
· <b>Temperatura di decomposizione:</b>	<i>Non definito.</i>
· <b>Temperatura di autoaccensione:</b>	<i>Non definito.</i>
· <b>Proprietà esplosive:</b>	<i>Prodotto non esplosivo.</i>
· <b>Limiti di infiammabilità:</b>	
<b>Inferiore:</b>	<i>Non definito.</i>
<b>Superiore:</b>	<i>Non definito.</i>
· <b>Tensione di vapore a 402 °C:</b>	<i>0,13 hPa</i>
· <b>Densità a 20 °C:</b>	<i>5,67 g/cm<sup>3</sup></i>
· <b>Densità apparente:</b>	<i>2.100 kg/m<sup>3</sup></i>
· <b>Densità relativa</b>	<i>Non definito.</i>
· <b>Densità di vapore:</b>	<i>Non applicabile.</i>
· <b>Velocità di evaporazione</b>	<i>Non applicabile.</i>
· <b>Solubilità in/Miscibilità con acqua a 20 °C:</b>	<i>798 g/l</i>
· <b>Coefficiente di ripartizione: n-ottanolo/acqua:</b>	<i>Non definito.</i>
· <b>Viscosità:</b>	
<b>Dinamica:</b>	<i>Non applicabile.</i>
<b>Cinematica:</b>	<i>Non applicabile.</i>
· <b>9.2 Altre informazioni</b>	<i>Non sono disponibili altre informazioni.</i>

### SEZIONE 10: Stabilità e reattività

- **10.1 Reattività** *Non sono disponibili altre informazioni.*
- **10.2 Stabilità chimica**
- **Decomposizione termica/ condizioni da evitare:** *Il prodotto non si decompone se utilizzato secondo le norme.*
- **10.3 Possibilità di reazioni pericolose** *Non sono note reazioni pericolose.*
- **10.4 Condizioni da evitare** *Non sono disponibili altre informazioni.*
- **10.5 Materiali incompatibili:** *Non sono disponibili altre informazioni.*
- **10.6 Prodotti di decomposizione pericolosi:** *Non sono noti prodotti di decomposizione pericolosi.*

### SEZIONE 11: Informazioni tossicologiche

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta**  
*Tossico se ingerito o inalato.*

· **Valori LD/LC50 rilevanti per la classificazione:**

Orale	LD50	166 mg/kg (mouse)
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- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** *Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.*
- **Lesioni oculari gravi/irritazioni oculari gravi**  
*Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.*

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- **Sensibilizzazione respiratoria o cutanea**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Cancerogenicità**  
Sospettato di provocare il cancro.
- **Tossicità per la riproduzione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**  
Può provocare danni agli organi in caso di esposizione prolungata o ripetuta.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

### SEZIONE 12: Informazioni ecologiche

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Effetti tossici per l'ambiente:**
- **Osservazioni:** Molto tossico per i pesci.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe 3 (D) (Classif. secondo le liste): molto pericoloso  
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature, anche in piccole dosi.  
Pericolo per le acque potabili anche in caso di perdite nel sottosuolo di quantità minime di prodotto.  
Tossico per pesci e plancton.  
Molto tossico per gli organismi acquatici
- **12.5 Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

### SEZIONE 13: Considerazioni sullo smaltimento

- **13.1 Metodi di trattamento dei rifiuti**
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.
- **Detergente consigliato:** Acqua eventualmente con l'aggiunta di detersivi.

### SEZIONE 14: Informazioni sul trasporto

- **14.1 Numero ONU**
- **ADR, IMDG, IATA** UN2570

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IT

**Scheda di dati di sicurezza**  
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<ul style="list-style-type: none"> <li>· 14.2 Nome di spedizione dell'ONU</li> <li>· ADR</li> <li>· IMDG</li> <li>· IATA</li> </ul>	<p>2570 COMPOSTO DEL CADMIO (<i>cadmio ioduro</i>), PERICOLOSO PER L'AMBIENTE CADMIUM COMPOUND, MARINE POLLUTANT CADMIUM COMPOUND</p>
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· 14.3 Classi di pericolo connesso al trasporto

· ADR, IMDG



<ul style="list-style-type: none"> <li>· Classe</li> <li>· Etichetta</li> </ul>	<p>6.1 Materie tossiche 6.1</p>
---	-------------------------------------

· IATA



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>6.1 Materie tossiche 6.1</p>
--	-------------------------------------

· 14.4 Gruppo di imballaggio

· ADR, IMDG, IATA III

· 14.5 Pericoli per l'ambiente:

<ul style="list-style-type: none"> <li>· Marine pollutant:</li> <li>· Marcatura speciali (ADR):</li> </ul>	<p>Materia pericolosa dal punto di vista dell'ambiente, solida; Marine Pollutant Simbolo (pesce e albero) Simbolo (pesce e albero)</p>
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· 14.6 Precauzioni speciali per gli utilizzatori

<ul style="list-style-type: none"> <li>· Numero Kemler:</li> <li>· Numero EMS:</li> <li>· Stowage Category</li> </ul>	<p>Attenzione: Materie tossiche 60 6.1-04 A</p>
---	---

· 14.7 Trasporto di rifiuti secondo l'allegato II di MARPOL ed il codice IBC

Non applicabile.

· Trasporto/ulteriori indicazioni:

<ul style="list-style-type: none"> <li>· ADR</li> <li>· Quantità limitate (LQ)</li> <li>· Quantità esenti (EQ)</li> <li>· Categoria di trasporto</li> <li>· Codice di restrizione in galleria</li> </ul>	<p>5 kg Codice: E1 Quantità massima netta per imballaggio interno: 30 g Quantità massima netta per imballaggio esterno: 1000 g 2 E</p>
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· IMDG

<ul style="list-style-type: none"> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	<p>5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g</p>
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(continua a pagina 8)

**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

Stampato il: 12.12.2018

Revisione: 12.12.2018

**Denominazione commerciale: cadmio ioduro**

(Segue da pagina 7)

· **UN "Model Regulation":** UN 2570 COMPOSTO DEL CADMIO (CADMIO IODURO),  
6.1, III, PERICOLOSO PER L'AMBIENTE

### SEZIONE 15: Informazioni sulla regolamentazione

- **15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**
- **Direttiva 2012/18/UE**
- **Sostanze pericolose specificate - ALLEGATO I** La sostanza non è contenuta
- **Categoria Seveso**  
H2 TOSSICITÀ ACUTA  
E1 Pericoloso per l'ambiente acquatico
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore** 50 t
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore** 200 t
- **REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII** Restrizioni: 23
- **Regolamento (UE) N. 649/2012 Annex I Part 1**
- **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

### SEZIONE 16: Altre informazioni

*I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.*

- **Abbreviazioni e acronimi:**  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 3: Tossicità acuta – Categoria 3  
 Carc. 2: Cancerogenicità – Categoria 2  
 STOT RE 2: Tossicità specifica per organi bersaglio (esposizione ripetuta) – Categoria 2  
 Aquatic Acute 1: Pericoloso per l'ambiente acquatico - pericolo acuto per l'ambiente acquatico – Categoria 1  
 Aquatic Chronic 1: Pericoloso per l'ambiente acquatico - pericolo a lungo termine per l'ambiente acquatico – Categoria 1

IT

# 물질안전보건자료 GHS에 따라

기압점: 2018.12.12

개정: 2018.12.12

## 1 화학제품과 회사에 관한 정보

- **제품 식별자**
  - **제품명: 요오드화카드뮴**
  - **상품번호:** 12320, 12321
  - **CAS-번호**  
7790-80-9
  - **EC 의번호:**  
232-223-6
  - **색인 번호:**  
048-007-00-8
  - **해당 순물질이나 혼합물의 관련 하위용도 및 사용금지용도** 추가적인 정보가 존재하지 않습니다.
  - **제품의 권고 용도와 사용상의 제한:** 실험실화 학품
  - **안전데이터표(Safety Data Sheet)내 공급업체 관련 상세 정보**
  - **제조사/수입자/유통업자 정보:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
  - **Samchang Commercial Co., Ltd.**  
Yeo Eui Do  
PO Box 1110  
Seoul, Korea  
Tel: 82 2 703 3040  
Fax: 82 2 717 3298
- 
- **Daedok Science, Co. Ltd.**  
34141 E10 Korea Advanced Institute of Science  
Guseong-Dong, Yuseong-gu, Daejeon,  
Korea  
Phone: 82 42 710 2091  
Fax: 82 42 367 0005  
Website: www.labsmro.com
  - **추가적인 정보 획득 가능:** Product safety department
  - **비상연락 전화번호:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 유해성·위험성

- **순물질 또는 혼합물의 분류**



두개골과 대퇴골

급성 독성 - 경구 - 구분 3

H301 삼키면 유독함

급성 독성 - 흡입 - 구분 3

H331 흡입하면 유독함



건강에 위험

(2 쪽에 계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2018.12.12

개정: 2018.12.12

### 제품명: 요오드화카드뮴

(1 쪽부터계속)

발암성 - 구분 2 H351 암을 일으킬 것으로 의심됨  
 특정표적장기 독성 - 반복 노출 - 구분 2 H373 장기간 또는 반복노출 되면 신체 중에 손상을 일으킬 수 있음



환경

수생환경 유해성 - 급성 1 H400 수생생물에 매우 유독함  
 수생환경 유해성 - 만성1 H410 장기적인 영향에 의해 수생생물에게 매우 유독함

· 라벨표기 요소

· GHS 라벨 요소

본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· 그림문자



GHS06 GHS08 GHS09

· 신호어 위험

· 유해·위험 문구

삼키거나 흡입하면 유독함.  
 암을 일으킬 것으로 의심됨  
 장기간 또는 반복노출 되면 신체 중에 손상을 일으킬 수 있음  
 장기적인 영향에 의해 수생생물에게 매우 유독함

· 예방조치 문구

(분진·흙·가스·미스트·증기·스프레이)를(을) 흡입하지 마시오.  
 삼켰을 시: 즉시 독성물질센터/병원 연락 필요.  
 (라벨 참조) 처치를 하시오.  
 입을 씻어내시오.  
 잠금장치가 있는 저장장소에 저장 하시오.  
 현지/지역/국가/국제 규정에 따라서 내용물/용기 노출

· 기타 유해성

- PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
- PBT(잔류성, 생물농축성, 독성 물질): 해당사항 없음.
- vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.

### 3 구성성분의 명칭 및 함유량

- 화학적 특성: 화학물질
- CAS-번호표시  
7790-80-9 요오드화카드뮴
- 식별 번호
- EC 의번호: 232-223-6
- 색인 번호: 048-007-00-8

### 4 응급조치 요령

· 응급조치요령 내용

· 일반적 정보:

이 제품에 의해 오염 된 의상은 즉시 제거 한다.

(3 쪽에계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2018.12.12

개정: 2018.12.12

### 제품명: 요오드화카드름

(2 쪽부터계속)

반드시 오염된 의상을 완전히 제거한 후에 호흡보호기를 떼어낸다.  
불규칙적인 호흡이나 호흡정지상태에서는 인공호흡을 실시한다.

**· 흡입했을 때:**

· 신선한 공기나 산소를 공급받고, 의료진의 도움을 구한다.  
· 환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.

**· 피부에 접촉했을 때:** 즉시 물과 비누로 씻고 잘 행군다.

· 눈에 들어갔을 때: 흐르는 물에 눈을 몇분동안 씻어내고 나서, 의사와 상담한다.

· 먹었을 때: 구토를 유발시키지 않는다. 즉시 의료진의 도움을 구한다.

**· 기타 의사의 주의사항:**

· 가장 중요한 급·만성 증상 및 영향 추가적인 정보가 존재하지 않습니다.

· 즉각적인 의료처치 및 특별치료가 필요함을 시사하는 징후 추가적인 정보가 존재하지 않습니다.

## 5 폭발·화재시 대처방법

**· 소화제**

· 적절한 소화제: 주변 환경에 맞는 화재 진화방법을 사용한다.

· 본 화학물질이나 혼합물에서 발생하는 특별 유해성 추가적인 정보가 존재하지 않습니다.

**· 소방관에 대한 권고사항**

· 화재 진압 시 착용할 보호구 및 예방조치: 호흡보호장비설치.

## 6 누출 사고 시 대처방법

· 개인적 예방조치, 보호장비 및 응급처치 절차 필요없음.

**· 환경 관련 예방조치:**

· 하천이나 하수로 유입되었을 경우 해당 관청에 보고한다.

· 하수도망/해수면위의 물/지하수로도 달하지 않게 한다.

**· 밀폐 및 정화 방법과 소재:**

· 항목 13에 따라 오염된 물질을 쓰레기로 처분한다.

· 충분한 환기가 되도록 한다.

**· 타 섹션 참조**

· 안전 관리에 대한 정보는 제7장을 참고하십시오.

· 개인 보호 장비에 대한 정보는 제8장을 참고하십시오.

· 쓰레기 처리에 대한 정보는 제13장을 참고하십시오.

## 7 취급 및 저장방법

**· 취급:**

**· 안전 취급을 위한 예방조치**

· 철저한 먼지 제거.

· 작업장에서는 통풍이 잘 되고/습기 제거가 잘 되게 주의한다.

· 조심스럽게 용기를 개봉하거나 취급한다.

· 먼지 발생을 피한다.

· 화재 및 폭발 사고 예방대책에 관한 정보: 호흡보호장비를 항상 비치한다.

**· 혼합 위험성 등 안전 저장 조건**

**· 보관:**

· 안전한 저장 방법: 특별한 요구사항이 없음.

· 하나의 공동 보관 시설에 대한 보관 관련 정보: 필요없음

· 보관 조건에 관한 추가적인 정보: 용기를 새지 않게 밀폐한 채 보관한다.

(4 쪽에 계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2018.12.12

개정: 2018.12.12

**제품명: 요오드화카드뮴**

(3 쪽부터계속)

· **구체적 최종 사용자** 추가적인 정보가 존재하지 않습니다.

### 8 노출방지 및 개인보호구

· **첨단시설 디자인에 대한 추가정보:** 더 이상 의 자료는 없음. 항 목 7 을 참고하시 오.

· **통제 변수**

· **화학물질의 노출기준, 생물학적 노출기준 등:**

**7790-80-9 요오드화카드뮴**

TLV (KR)	장기간의값: 0.01 0.002* mg/m <sup>3</sup> as Cd *respirable
PEL (US)	장기간의값: 0.005 mg/m <sup>3</sup> as Cd; see 29 CFR 1910.1027
REL (US)	See Pocket Guide App. A
TLV (US)	장기간의값: 0.01 0.002* mg/m <sup>3</sup> as Cd; *respirable fraction; BEI

· **추 가 정보:** 제 조 할 당시에 유 효 한 목 록을 기초로 사용했다.

· **노출 통제**

· **개인 보호구**

· **일반적보호조치및위생조치:**

· 식료품, 음료수와 사료로부터 멀리떨어뜨려 놓는다.

· 더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.

· 휴식 전 이 나 작업이 끝날때마다 손을 씻는다.

· 방호복은 따로보관한다.

· **호흡기 보호:**

· 단 시간 또는 경미한 오염의 경우에는 호흡여과기를 사용한다. 심각한 또는 장기간 노출시에는 호흡보호장비를 사용한다.

· **손 보호:**

· 장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성있어야한다.

· 테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.

· 투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

· **장갑의재료**

· 적합한장갑의선택은재질차이뿐아니라품질기준의차이도고려하여이루어져야하고제조업자에따라서도다르게선정되어야한다.

· **장갑재료의투과시간** 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.

· **눈 보호:** 필요 없음.

### 9 물리화학적 특성

· **기본 물리 및 화학적 특성에 대한 정보**

· **일반정보**

· **외형**

· 물리적 상태:	고체
· 색:	알맞지않다.
· 냄새:	특색있는
· 후각역치	알맞지않다.

· **pH:** 해당사항 없음.

· **상태변화**

· 녹는점/어는점: 387 °C

(5 쪽에계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2018.12.12

개정: 2018.12.12

**제품명: 요오드화카드뮴**

(4 쪽부터계속)

<b>초기 끓는점과 끓는점 범위:</b>	796 °C
· <b>인화점:</b>	해당사항 없음.
· <b>인화성(고체, 기체):</b>	이 제품은 가연성이 없다. 알맞지 않다. 해당사항 없음.
· <b>분해 온도:</b>	알맞지 않다.
· <b>자기점화:</b>	알맞지 않다.
· <b>폭발위험:</b>	이 제품은 폭발위험성이 없다
· <b>인화 또는 폭발 범위의 상한/하한</b>	
아래로:	알맞지 않다.
위로:	알맞지 않다.
· <b>증기압 의경우 402 °C:</b>	0.13 hPa
· <b>밀도 의경우 20 °C:</b>	5.67 g/cm <sup>3</sup>
· <b>용 적 밀도:</b>	2,100 kg/m <sup>3</sup>
· <b>비중:</b>	알맞지 않다.
· <b>증기밀도:</b>	해당사항 없음.
· <b>증발 속도:</b>	해당사항 없음.
· <b>용해도:</b>	
<b>물 의경우 20 °C:</b>	798 g/l
· <b>n 옥탄올/물 분배계수:</b>	알맞지 않다.
· <b>점도:</b>	
<b>역학성:</b>	해당사항 없음.
<b>동점성:</b>	해당사항 없음.
· <b>기타 정보</b>	추가적인 정보가 존재하지 않습니다.

### 10 안정성 및 반응성

- **반응성** 추가적인 정보가 존재하지 않습니다.
- **화학적 안정성**
- **화학적 안정성 및 유해 반응의 가능성 / 피해야 할 조건:** 규정에 따라 사용할 경우 해체는 없다
- **유해반응 가능성** 위험한 반응으로는 알려지지 않았다.
- **피해야 할 조건** 추가적인 정보가 존재하지 않습니다.
- **혼합 금지 물질:** 추가적인 정보가 존재하지 않습니다.
- **유해분해물질:** 위험성있는 분해물들은 알려지지 않았다.

### 11 독성에 관한 정보

- **독성학적 영향에 대한 정보**
- **급성 독성:**

· **LD/LC50-수치에 따른 분류:**

구강의 LD50	166 mg/kg (mouse)
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- **일차적 자극 효과:**
- **피부 부식성 또는 자극성:** 무자극
- **심한 눈 손상 또는 자극성:** 무자극.
- **감각화:** 민감한 영향이 없는 것으로 알려져 있다.

(6 쪽에 계속)



# 물질안전보건자료

## GHS에 따라

기압점: 2018.12.12

개정: 2018.12.12

**제품명: 요오드화카드뮴**

(5 쪽부터계속)

- 다음 종류의 잠재적인 효과에 대한 정보
- CMR-효과 (암 유발, 돌연변이성 그리고 생식 특성)
- 발암성 - 구분 2

### 12 환경에 미치는 영향

- **독성**
- **수생독성:** 추가적인 정보가 존재하지 않습니다.
- **지속성 및 분해성** 추가적인 정보가 존재하지 않습니다.
- **환경 시스템에서의 행동:**
- **생물농축 잠재성** 추가적인 정보가 존재하지 않습니다.
- **토양내 이동성** 추가적인 정보가 존재하지 않습니다.
- **생태독성:**
- **의견:** 어류 에 매우 독성임
- **추가적인 생태학 정보:**
- **일반 특징:**  
수질오염등급 3 (목록분류): 심하게수질오염이된 지하수나, 하천으로또는 하수도망에도달하지않게한다. 역시극소수의양이라도안된다. 지하수로아주미세한양이유입되었을경우엔이미식수오염상태이다. 하천에서는역시물고기나플랑크톤게는독성이있다. 물속의유기체에아주독이되는것
- **PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과**
- **PBT(잔류성, 생물농축성, 독성 물질):** 해당사항 없음.
- **vPvB(고 잔류성, 고 생물농축성 물질):** 해당사항 없음.
- **기타 부작용** 추가적인 정보가 존재하지 않습니다.

### 13 폐기시 주의사항

- **폐기물 처리 방법**
- **권고:** 생활쓰레기와함께처리되어서는안된다. 하수도망으로유입되어서는안된다.
- **비위생적 포장:**
- **권고:** 당국의지침에입각한쓰레기처리.
- **추천 세정제:** 경우에따라서세제가첨가된물

### 14 운송에 필요한 정보

· 유엔 번호	
· ADR, IMDG, IATA	UN2570
· UN 적정 선적명	
· ADR	2570 CADMIUM COMPOUND (요오드화카드뮴), ENVIRONMENTALLY HAZARDOUS
· IMDG	CADMIUM COMPOUND, MARINE POLLUTANT
· IATA	CADMIUM COMPOUND

(7 쪽에계속)

# 물질안전보건자료



## GHS에 따라

기압점: 2018.12.12

개정: 2018.12.12

**제품명: 요오드화카드뮴**

(6 쪽부터계속)

<ul style="list-style-type: none"> <li>· 교통 위험 클래스</li> <li>· ADR, IMDG</li> </ul>	
	
<ul style="list-style-type: none"> <li>· 등급</li> <li>· 위험물 라벨</li> </ul>	6.1 독성물질 6.1
<ul style="list-style-type: none"> <li>· IATA</li> </ul>	
	
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	6.1 독성물질 6.1
<ul style="list-style-type: none"> <li>· 용기등급</li> <li>· ADR, IMDG, IATA</li> </ul>	III
<ul style="list-style-type: none"> <li>· 환경적 유해물질:</li> <li>· 해양오염물질:</li> <li>· 특수 마킹 (ADR):</li> </ul>	이물질은환경을오염시킨다; 해양오염 심벌 (물고기와 나무) 심벌 (물고기와 나무)
<ul style="list-style-type: none"> <li>· 이용자 특별 예방조치</li> <li>· 위험 코드:</li> <li>· EMS-번호:</li> <li>· Stowage Category</li> </ul>	경고: 독성물질 60 6.1-04 A
<ul style="list-style-type: none"> <li>· MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크(bulk) 운송</li> </ul>	해당사항 없음.
<ul style="list-style-type: none"> <li>· 운 송/추가 정보:</li> </ul>	
<ul style="list-style-type: none"> <li>· ADR</li> <li>· 한정 수량 (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
<ul style="list-style-type: none"> <li>· 운송 구분</li> <li>· 터널 제한 코드</li> </ul>	2 E
<ul style="list-style-type: none"> <li>· IMDG</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
<ul style="list-style-type: none"> <li>· UN "모범 규제":</li> </ul>	UN 2570 CADMIUM COMPOUND (요오드화카드뮴), 6.1, III, ENVIRONMENTALLY HAZARDOUS

KR

(8 쪽에계속)

# 물질안전보건자료 GHS에 따라

기압점: 2018.12.12

개정: 2018.12.12

**제품명: 요오드화카드름**

(7 쪽부터계속)

## 15 법적 규제현황

- **산업안전보건법에 의한 규제:**
- **제조 등 금지물질:** 성분이포함 되어있지않다
- **허가대상물질:** 성분이포함 되어있지않다
- **관리대상유해물질:** 성분이포함 되어있다
- **해당 순물질 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률**
- **Korean Existing Chemical Inventory KE-04412**
- **화학물질관리법**
- **사고대비물질** 성분이포함 되어있지않다
- **금지물질** 성분이포함 되어있지않다
- **제한물질** 성분이포함 되어있지않다
- **유독물질** 성분이포함 되어있다
- **허가물질** 성분이포함 되어있지않다
- **GHS 라벨 요소**  
본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
- **그림문자**



GHS06    GHS08    GHS09

- **신호어 위험**
- **유해.위험 문구**  
삼키거나 흡입하면 유독함.  
암을 일으킬 것으로 의심됨  
장기간 또는 반복노출 되면 신체 중에 손상을 일으킬 수 있음  
장기적인 영향에 의해 수생생물에게 매우 유독함
- **예방조치 문구**  
(분진·흙·가스·미스트·증기·스프레이)를(을) 흡입하지 마시오.  
삼켰을 시: 즉시 독성물질센터/병원 연락 필요.  
(라벨 참조) 처치를 하시오.  
입을 씻어내시오.  
잠금장치가 있는 저장장소에 저장 하시오.  
현지/지역/국가/국제 규정에 따라서 내용물/용기 노출
- **화학물질 안전성 평가:** 화학물질 안전성 평가가 수행되지 않음

## 16 그 밖의 참고사항

이보고는 우리지식에 대한 오늘날의 상태에 대하여 평가하고 있다, 하지만 이보고서는 생산특성에 관한 보증은 기술하지 않았으며 계약적인 법률관계에 기반을 두고 있지 않다

- **최초 작성일자:** 2018.12.12
- **개정 횟수 및 최종 개정일자:** 1 / 2018.12.12
- **약어와 두문자어:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 12.12.2018

Revisión: 12.12.2018

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

#### · 1.1 Identificador del producto

· **Nombre comercial:** ioduro de cadmio

· **Número del artículo:** 12320, 12321

· **Número CAS:**

7790-80-9

· **Número CE:**

232-223-6

· **Número de clasificación:**

048-007-00-8

· **1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

No existen más datos relevantes disponibles.

· **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio

· **1.3 Datos del proveedor de la ficha de datos de seguridad**

· **Fabricante/distribuidor:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Aname

C/ Perez Galdos no. 2

28693 Quijorna

Madrid, Spain

Tel: +34.91.816.89.50

Fax: +34.91.816.85.94

email: ventas@aname.es

· **Área de información:** Product safety department

· **1.4 Teléfono de emergencia:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SECCIÓN 2: Identificación de los peligros

· **2.1 Clasificación de la sustancia o de la mezcla**

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS06 calavera y tibias cruzadas

Acute Tox. 3

H301 Tóxico en caso de ingestión.

Acute Tox. 3

H331 Tóxico en caso de inhalación.



GHS08 peligro para la salud

Carc. 2

H351 Se sospecha que provoca cáncer.

STOT RE 2

H373 Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.

( se continua en página 2 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 12.12.2018

Revisión: 12.12.2018

Nombre comercial: **ioduro de cadmio**

( se continua en página 1 )



GHS09 medio ambiente

*Aquatic Acute 1 H400 Muy tóxico para los organismos acuáticos.*

*Aquatic Chronic 1 H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.*

### · 2.2 Elementos de la etiqueta

#### · Etiquetado con arreglo al Reglamento (CE) n° 1272/2008

*La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.*

#### · Pictogramas de peligro



GHS06



GHS08



GHS09

#### · Palabra de advertencia Peligro

#### · Indicaciones de peligro

*H301+H331 Tóxico en caso de ingestión o inhalación.*

*H351 Se sospecha que provoca cáncer.*

*H373 Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.*

*H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.*

#### · Consejos de prudencia

*P260 No respirar el polvo/el humo/el gas/la niebla/los vapores/el aerosol.*

*P301+P310 EN CASO DE INGESTIÓN: Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/médico.*

*P321 Se necesita un tratamiento específico (ver en esta etiqueta).*

*P330 Enjuagarse la boca.*

*P405 Guardar bajo llave.*

*P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.*

### · 2.3 Otros peligros

#### · Resultados de la valoración PBT y mPmB

· **PBT:** No aplicable.

· **mPmB:** No aplicable.

## SECCIÓN 3: Composición/información sobre los componentes

### · 3.1 Caracterización química: Sustancias

#### · Denominación N° CAS

7790-80-9 ioduro de cadmio

#### · Número(s) de identificación

· Número CE: 232-223-6

· Número de clasificación: 048-007-00-8

## SECCIÓN 4: Primeros auxilios

### · 4.1 Descripción de los primeros auxilios

#### · Instrucciones generales:

*Quitarse de inmediato toda prenda contaminada con el producto.*

*Antes de quitarse la protección respiratoria, quítese la ropa contaminada.*

*En caso de respiración irregular o apnea (paro respiratorio), hágase la respiración artificial.*

( se continua en página 3 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 12.12.2018

Revisión: 12.12.2018

Nombre comercial: **ioduro de cadmio**

( se continua en página 2 )

- **En caso de inhalación del producto:**  
Suministrar aire fresco u oxígeno; solicitar ayuda médica.  
Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.
- **En caso de contacto con la piel:** Lavar inmediatamente con agua y jabón y enjuagar bien.
- **En caso de con los ojos:**  
Limpiar los ojos abiertos durante varios minutos con agua corriente y consultar un médico.
- **En caso de ingestión:** No provocar el vómito y solicitar asistencia médica inmediata.
- **4.2 Principales síntomas y efectos, agudos y retardados** No existen más datos relevantes disponibles.
- **4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**  
No existen más datos relevantes disponibles.

### SECCIÓN 5: Medidas de lucha contra incendios

- **5.1 Medios de extinción**
- **Sustancias extintoras apropiadas:** Combatir los incendios con medidas adaptados al ambiente circundante.
- **5.2 Peligros específicos derivados de la sustancia o la mezcla** No existen más datos relevantes disponibles.
- **5.3 Recomendaciones para el personal de lucha contra incendios**
- **Equipo especial de protección:** Colocarse la protección respiratoria.

### SECCIÓN 6: Medidas en caso de vertido accidental

- **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia** No es necesario.
- **6.2 Precauciones relativas al medio ambiente:**  
Al penetrar en las aguas o en el alcantarillado, avisar a las autoridades pertinentes.  
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
- **6.3 Métodos y material de contención y de limpieza:**  
Desechar el material contaminado como vertido según ítem 13.  
Asegurar suficiente ventilación.
- **6.4 Referencia a otras secciones**  
Ver capítulo 7 para mayor información sobre una manipulación segura.  
Ver capítulo 8 para mayor información sobre el equipo personal de protección.  
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

### SECCIÓN 7: Manipulación y almacenamiento

- **7.1 Precauciones para una manipulación segura**  
Desempolvar cuidadosamente.  
Asegurar suficiente ventilación /aspiración en el puesto de trabajo.  
Abrir y manejar el recipiente con cuidado.  
Evitar la formación de polvo.
- **Prevención de incendios y explosiones:** Tener preparados los aparatos respiratorios.
- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** No se requieren medidas especiales.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:**  
Mantener el recipiente cerrado herméticamente.
- **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

ES

( se continua en página 4 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 12.12.2018

Revisión: 12.12.2018

Nombre comercial: *ioduro de cadmio*

( se continua en página 3 )

### SECCIÓN 8: Controles de exposición/protección individual

· **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**

Sin datos adicionales, ver punto 7.

· **8.1 Parámetros de control**

· **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:**

**7790-80-9 ioduro de cadmio**

LEP	Valor de larga duración: *0,01 **0,002 mg/m <sup>3</sup> VLB, r; Fracción *inhalable:d;** respirable:d
-----	---

· **Componentes con valores límite biológicos:**

**7790-80-9 ioduro de cadmio**

VLB	2 µg/g creatinina Muestra: en orina Momento de Muestero: No crítico Indicador Biológico: Cadmio
-----	--

	5 µg/l Muestra: en sangre Momento de Muestero: No crítico Indicador Biológico: Cadmio
--	--

· **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.

· **8.2 Controles de la exposición**

· **Equipo de protección individual:**

· **Medidas generales de protección e higiene:**

Mantener alejado de alimentos, bebidas y alimentos para animales.

Quitarse de inmediato la ropa ensuciada o impregnada.

Lavarse las manos antes de las pausas y al final del trabajo.

Guardar la ropa protectora por separado.

· **Protección respiratoria:**

Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.

· **Protección de manos:**

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

· **Material de los guantes**

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro.

· **Tiempo de penetración del material de los guantes**

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

· **Protección de ojos:** No es necesario.

ES

( se continua en página 5 )



# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 12.12.2018

Revisión: 12.12.2018

Nombre comercial: *ioduro de cadmio*

( se continua en página 4 )

### SECCIÓN 9: Propiedades físicas y químicas

#### · 9.1 Información sobre propiedades físicas y químicas básicas

##### · Datos generales

##### · Aspecto:

Forma:

Sólido

Color:

No determinado.

##### · Olor:

Característico

##### · Umbral olfativo:

No determinado.

##### · valor pH:

No aplicable.

##### · Cambio de estado

Punto de fusión/punto de congelación: 387 °C

Punto inicial de ebullición e intervalo de ebullición: 796 °C

##### · Punto de inflamación:

No aplicable.

##### · Inflamabilidad (sólido, gas):

La sustancia no es inflamable.

No determinado.

No aplicable.

##### · Temperatura de descomposición:

No determinado.

##### · Temperatura de auto-inflamación:

No determinado.

##### · Propiedades explosivas:

El producto no es explosivo.

##### · Límites de explosión:

Inferior:

No determinado.

Superior:

No determinado.

##### · Presión de vapor a 402 °C:

0,13 hPa

##### · Densidad a 20 °C:

5,67 g/cm<sup>3</sup>

##### · Densidad a granel:

2.100 kg/m<sup>3</sup>

##### · Densidad relativa

No determinado.

##### · Densidad de vapor

No aplicable.

##### · Tasa de evaporación:

No aplicable.

##### · Solubilidad en / miscibilidad con agua a 20 °C:

798 g/l

##### · Coeficiente de reparto: n-octanol/agua:

No determinado.

##### · Viscosidad:

Dinámica:

No aplicable.

Cinémática:

No aplicable.

##### · 9.2 Otros datos

No existen más datos relevantes disponibles.

### SECCIÓN 10: Estabilidad y reactividad

· 10.1 Reactividad No existen más datos relevantes disponibles.

· 10.2 Estabilidad química

· Descomposición térmica / condiciones que deben evitarse: No se descompone al emplearse adecuadamente.

· 10.3 Posibilidad de reacciones peligrosas No se conocen reacciones peligrosas.

· 10.4 Condiciones que deben evitarse No existen más datos relevantes disponibles.

· 10.5 Materiales incompatibles: No existen más datos relevantes disponibles.

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# Ficha de datos de seguridad

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· **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

### SECCIÓN 11: Información toxicológica

· **11.1 Información sobre los efectos toxicológicos**· **Toxicidad aguda**

Tóxico en caso de ingestión o inhalación.

· **Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:**

Oral	LD50	166 mg/kg (mouse)
------	------	-------------------

· **Efecto estimulante primario:**· **Corrosión o irritación cutáneas** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.· **Lesiones o irritación ocular graves**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Sensibilización respiratoria o cutánea**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**· **Mutagenicidad en células germinales**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Carcinogenicidad**

Se sospecha que provoca cáncer.

· **Toxicidad para la reproducción** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.· **Toxicidad específica en determinados órganos (STOT) – exposición única**

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Toxicidad específica en determinados órganos (STOT) – exposición repetida**

Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.

· **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

### SECCIÓN 12: Información ecológica

· **12.1 Toxicidad**· **Toxicidad acuática:** No existen más datos relevantes disponibles.· **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.· **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.· **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.· **Efectos ecotóxicos:**· **Observación:** Muy tóxico para peces.· **Indicaciones medioambientales adicionales:**· **Indicaciones generales:**

Nivel de riesgo para el agua 3 (clasificación de listas): muy peligroso para el agua

No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados, ni siquiera en pequeñas cantidades.

Una cantidad ínfima vertida en el subsuelo ya representa un peligro para el agua potable.

Vertido en aguas superficiales, también es tóxico para los peces y el plancton.

muy tóxico para organismos acuáticos

· **12.5 Resultados de la valoración PBT y mPmB**· **PBT:** No aplicable.· **mPmB:** No aplicable.· **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

ES

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**SECCIÓN 13: Consideraciones relativas a la eliminación**

- **13.1 Métodos para el tratamiento de residuos**
- **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.
- **Embalajes sin limpiar:**
- **Recomendación:** Eliminar conforme a las disposiciones oficiales.
- **Producto de limpieza recomendado:** Agua, eventualmente añadiendo productos de limpieza.

**SECCIÓN 14: Información relativa al transporte**

· <b>14.1 Número ONU</b> · <b>ADR, IMDG, IATA</b>	UN2570
· <b>14.2 Designación oficial de transporte de las Naciones Unidas</b> · <b>ADR</b>  · <b>IMDG</b> · <b>IATA</b>	2570 CADMIO, COMPUESTO DE (ioduro de cadmio), PELIGROSO PARA EL MEDIO AMBIENTE CADMIUM COMPOUND, MARINE POLLUTANT CADMIUM COMPOUND
· <b>14.3 Clase(s) de peligro para el transporte</b> · <b>ADR, IMDG</b>	
 	
· <b>Clase</b> · <b>Etiqueta</b>	6.1 Materias tóxicas 6.1
· <b>IATA</b>	
	
· <b>Class</b> · <b>Label</b>	6.1 Materias tóxicas 6.1
· <b>14.4 Grupo de embalaje</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Peligros para el medio ambiente:</b>  · <b>Contaminante marino:</b> · <b>Marcado especial (ADR):</b>	Sustancia sólida potencialmente peligrosas para el medio ambiente; Contaminante marino Símbolo (pez y árbol) Símbolo (pez y árbol)
· <b>14.6 Precauciones particulares para los usuarios</b> · <b>Número Kemler:</b> · <b>Número EMS:</b> · <b>Stowage Category</b>	Atención: Materias tóxicas 60 6.1-04 A
· <b>14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC</b>	No aplicable.

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· **Transporte/datos adicionales:**

· **ADR**

- **Cantidades limitadas (LQ)** 5 kg
- **Cantidades exceptuadas (EQ)** Código: E1  
Cantidad neta máxima por envase interior: 30 g  
Cantidad neta máxima por embalaje exterior: 1000 g
- **Categoría de transporte** 2
- **Código de restricción del túnel** E

· **IMDG**

- **Limited quantities (LQ)** 5 kg
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 g  
Maximum net quantity per outer packaging: 1000 g

- **"Reglamentación Modelo" de la UNECE:** UN 2570 CADMIO, COMPUESTO DE (IODURO DE CADMIO), 6.1, III, PELIGROSO PARA EL MEDIO AMBIENTE

### SECCIÓN 15: Información reglamentaria

- **15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**
- **Directiva 2012/18/UE**
- **Sustancias peligrosas nominadas - ANEXO I** No contiene la sustancia.
- **Categoría Seveso**  
H2 TOXICIDAD AGUDA  
E1 Peligroso para el medio ambiente acuático
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior** 50 t
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior** 200 t
- **REGLAMENTO (CE) n° 1907/2006 ANEXO XVII Restricciones:** 23
- **Reglamento (UE) No 649/2012 Annex I Part 1**
- **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

### SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

· **Abreviaturas y acrónimos:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 3: Toxicidad aguda – Categoría 3  
 Carc. 2: Carcinogenicidad – Categoría 2  
 STOT RE 2: Toxicidad específica en determinados órganos (exposiciones repetidas) – Categoría 2  
 Aquatic Acute 1: Peligroso para el medio ambiente acuático - peligro acuático agudo – Categoría 1  
 Aquatic Chronic 1: Peligroso para el medio ambiente acuático - peligro acuático a largo plazo – Categoría 1