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1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 2282**

· **Product name:**

Iod
Iodum
Iodine

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

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

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Warning

· **H-Phrases:**

H312 Harmful in contact with skin

H332 Harmful if inhaled

H400 Very toxic to aquatic life

· **P-Phrases:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P273 Avoid release to the environment

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


P302 IF ON SKIN:

P352 Wash with soap and water

Acute Tox. 4 (oral)

Acute Tox. 4 (skin)

Aquatic Acute 1

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

7553-56-2 Iodine

• **EINECS-No.:** 231-442-4

• **Index-No.:** 053-001-00-3

• **REACH Reg. No.:** 01-2119485285-30-0000

• **INCI-Name:** -

4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap. Colouring of skin can be removed with sodium thiosulfate solution.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If irritation continues, call in ophthalmologist..
- **after swallowing:** Drink plenty of water or better milk. Give flour, boiled in water.
- **Medical advice:** Laxans: Sodium sulfate (1 spoon. / 1/4 l Water).

5 Fire-fighting measures


- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Not combustible. In case of fire dangerous gases / vapours can be released: Iodine vapour.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Good ventilation of working place.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

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8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

7553-56-2 Jod (100,0%)

AGW: 1,1 mg/m³, 0,1 ml/m²

- **Personal protective equipment:**
- **Respiratory protection:** Required if vapours are generated.
- **Hand protection:** Protection gloves of nitrile rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** solid
- **Colour:** red – brown - violet
- **Odour:** pungent
- **Melting point / melting range:** 113,6 °C
- **Boiling point / boiling range:** 184,35 °C
- **Vapour pressure:** (20 °C) 0,31 hPa
- **Density:** (20 °C) 4,93 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 0,34 g/l

10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Materials to avoid:** Metals, other elements, ammonia, ammonium compounds, oxides, halogens, acetylides, acetylene, azides, etheric oils, solvents, alkalines
- **Hazardous decomposition products:** Iodine vapour

11 Toxicological information

- **Acute toxicity:**
LD50 (oral, rat) 315 mg/kg
LD50 (dermal, rabbit) 1425 mg/kg
LC50 (inhal, rat) 4588 mg/l (OECD 403)
NOAEL (rat) 10 mg/d/kg
- **Primary irritant effect:**
- **on skin:** Skin damage.
- **on respiratory organs:** Strong irritations
- **after swallowing:** Metallic taste, blood containing diarrhea, temperature and collapse.
- **Sub-acute / chronic toxicity:** Skin damage and allergic reactions with rhinitis, conjunktivitis, bronchitis and asthma.

12 Ecological information

- **Aquatic toxicity:**
Fish (*Oncorhynchus mykiss*) LC50 1,67 mg/l/96h
Daphnia (*Daphnia magna*) EC50 0,55 mg/l/48h

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Algae (*Desmodesmus subspicatus*) EC50 0,13 mg/l/72h

- **General advices:** Very toxic for water organisms.
- **Water hazard class:** 2 (VwVwS): hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or inorganic laboratory chemicals.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Iodine
- **Class:** 8
- **UN-number:** 3495
- **Packing group:** III
- **Classification code:** CT2
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 80
- **Special provisions (Chapter 3.3 ADR):** TP33
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-B
- **Properties:** -

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS07

- **Signal word:** Warning

- **H-Phrases:**

H312 Harmful in contact with skin

H332 Harmful if inhaled

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- **P-Phrases:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P273 Avoid release to the environment

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


P302 IF ON SKIN:

P352 Wash with soap and water

- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

- **Storage class TRGS 510:** 8B

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16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.