

Trade name: Iodum

Substance number: 064368

Version: 6 / CH

Date revised: 14.09.2021

Replaces Version: 5 / CH

Print date: 14.09.21

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

1.1. Product identifier

Iodum

Item No. 06436800

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

Use of the substance/preparation

Manufacture of pharmaceutical products, analytics

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H312
Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 1	H372
Aquatic Acute 1	H400

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***



Signal word ***

Danger

Hazard statements ***

H312 Harmful in contact with skin.
 H332 Harmful if inhaled.

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H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H372 Causes damage to organs through prolonged or repeated exposure.
 Thyroid
 Route of exposure: oral
 H400 Very toxic to aquatic life.

Precautionary statements ***

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.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** iodine

SECTION 3: Composition/information on ingredients *****Hazardous ingredients *******iodine**

CAS No.	7553-56-2		
EINECS no.	231-442-4		
Registration no.	01-2119485285-30-XXXX		
Concentration	>= 100		%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4	H312	
	Acute Tox. 4	H332	
	Skin Irrit. 2	H315	
	Eye Irrit. 2	H319	
	STOT SE 3	H335	Respiratory tract
	STOT RE 1	H372	Thyroid; Route of exposure: oral
	Aquatic Acute 1	H400	

Concentration limits (Regulation (EC) No. 1272/2008)

M = 1

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice. If necessary, give oxygen

After skin contact

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Drink water in small gulps. Summon a doctor immediately.

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4.2. Most important symptoms and effects, both acute and delayed

In the foreground the local effect stays at first, characterized by a quickly in the depth moving damage of the tissue. if swallowed: Fever

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

If the accident victim is conscious, it can be given 100 to 200 ml of an aqueous solution 10% of sodium thiosulfate.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings

Non suitable extinguishing media

not applicable

5.2. Special hazards arising from the substance or mixture

Development of toxic gases; Hydrogen iodide (HI)

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Do not discharge into surface waters/groundwater. Suppress vapours with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Do not inhale dust. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not empty into drains. Cover drains.

6.3. Methods and material for containment and cleaning up

To pick up dry. Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Observe safety references and application instructions mentioned on can. Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in original packaging.

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Storage classes

Storage class according to TRGS 510	6.1D	Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
Storage category (Switzerland)	6.1	Toxic substances

Further information on storage conditions

Keep container tightly closed. Store in a dry place

SECTION 8: Exposure controls/personal protection *****8.1. Control parameters****Exposure limit values *******Iodine**

List	SUVA			
Type	MAK			
Value	1	mg/m ³	0,1	ppm(V)
Short term exposure limit	1	mg/m ³	0,1	ppm(V)

Skin resorption / sensibilisation: H; Remarks: H; OAW & Auge; OSHA

8.2. Exposure controls**Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Preventative skin protection.

Respiratory protection

Use breathing apparatus in dust/fumes/mist-laden atmosphere. Short term: filter apparatus, combination filter B-P2

Hand protection

Protective gloves	
Use	Permanent hand contact
Appropriate Material	nitrile rubber - NBR
Material thickness	0.11 mm
Breakthrough time	> 480 min
Use	Short-term hand contact
Appropriate Material	nitrile rubber - NBR
Material thickness	0.11 mm
Breakthrough time	> 480 min

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties**

Form	solid
Colour	dark violet
Odour	pungent
Odour threshold	

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Remarks No data available

pH value

Value 5.4

Remarks Saturated solution

Melting point

Value 113.5 °C

Initial boiling point and boiling range

Value 184.4 °C

Pressure 1013 hPa

Flash point

Value °C

Remarks Not applicable

Flammability (solid, gas)

Not ignitable

Upper/lower flammability or explosive limits

Remarks No data available

Vapour pressure

Value 0.41 hPa

Temperature 25 °C

DensityValue 4.93 g/cm³

Temperature 20 °C

Solubility in water

Value 0.3 g/l

Temperature 25 °C

Remarks slightly soluble

Auto-ignition temperature

Remarks No data available

Explosive properties

evaluation No data available

Oxidising properties

Remarks No data available

9.2. Other information**Bulk density**Value appr. 2100 kg/m³**SECTION 10: Stability and reactivity****10.1. Reactivity**

None known

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Protect from heat/overheating.

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10.5. Incompatible materials

Reactions with alkali metals. Reactions with earth alkali metals. Reactions with various metals. Magnesium, Aluminium, Fluorine, Ammonia, Reaction with ammonium compounds, Reactions with metals in powder form. Reactions with halogenated compounds. Reducing agents

10.6. Hazardous decomposition products

Hydrogen iodide (HI), Toxic gases/vapours

Other information

Danger of explosion

SECTION 11: Toxicological information *****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	315	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**iodine**

Species	rat	
LD50	315	mg/kg
Method	EPA	

Acute dermal toxicity

ATE	1'425	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)**iodine**

Species	rabbit	
LD50	1425	mg/g
Source	US-EPA	

Acute inhalational toxicity

ATE	4.588	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**iodine**

Species	rat	
Duration of exposure	> 4.588	mg/l
Administration/Form	4	h
Method	Dust/Mist OECD 403	

Skin corrosion/irritation (Components)**iodine**

evaluation	irritant
Method	OECD 439
Remarks	Longer or repeated exposure with the product may cause dermatitis

iodine

evaluation	non-corrosive
Method	OECD 439

iodine

evaluation	Moderately irritating
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Method Regulation (EC) 440/2008, B.46

Serious eye damage/irritation (Components)**iodine**

evaluation strongly irritant

Sensitization (Components)**iodine**Species mouse
evaluation non-sensitizing
Method OECD 429**Mutagenicity (Components)****iodine**Species mouse
evaluation No mutagenicity according to various in vitro tests.
Method OECD 476**Reproduction toxicity (Components)****iodine**

Remarks No data available

Carcinogenicity (Components)**iodine**

Remarks No data available.

Specific Target Organ Toxicity (STOT) (Components)**iodine****Repeated exposure**evaluation Causes damage to organs.
Route of exposure oral
Organs: Thyroid**iodine****Single exposure**evaluation May cause respiratory irritation.
Route of exposure inhalative
Organs: Respiratory tract**Experience in practice**

May cause allergic reactions by inhalation. May cause asthma. Irritates the mucous membrane. collapse. Irritating effect on the respiratory tract. The substance is absorbed through the mucous membranes.

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****iodine**Species rainbow trout (*Oncorhynchus mykiss*)
LC50 1.67 mg/l
Duration of exposure 96 h
Source ECHA**Daphnia toxicity (Components)****iodine**

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Species	Daphnia magna		
EC50	0.55		mg/l
Duration of exposure	48	h	
Method	static test		
Source	ECHA		

iodine

Species	Daphnia magna		
EC50	0.2		mg/l
Duration of exposure	48	h	

Algae toxicity (Components)**iodine**

Species	Desmodesmus subspicatus		
ErC50	0.13		mg/l
Duration of exposure	72	h	
Method	OECD 201		

iodine

Species	Desmodesmus subspicatus		
NOEC	0.025		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)**iodine**

Species	activated sludge		
EC50	280		mg/l
Duration of exposure	3	h	
Method	OECD 209		

12.2. Persistence and degradability**Physico-chemical eliminability (Components)****iodine**

Remarks	No data available.
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Biodegradability (Components)**iodine**

Remarks	Not applicable
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Ready degradability (Components)**iodine**

Remarks	Not applicable.
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12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****iodine**

log Pow	2.49
Method	experimental

12.4. Mobility in soil**General information**

No data available

12.5. Results of PBT and vPvB assessment**General information**

No data available

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12.6. Other adverse effects**General information / ecology**

Do not allow it to reach soil, ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.







EWC waste code

Should not be released into the sanitary sewer system.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	E		
14.1. UN number	3495	3495	3495
14.2. UN proper shipping name	IODINE	IODINE	IODINE
14.3. Transport hazard class(es)	8	8	8
Subsidiary risk	6.1	6.1	6.1
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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Water Hazard Class (Germany) ***

Water Hazard Class (Germany)	WGK 2
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Remarks	Derivation of WGK according to Annex 1 No. 5.2 AwSV
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15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.