

Trade name: Iodi solutio ethanolica

Substance number: 215801

Version: 4 / CH

Date revised: 30.12.2016

Replaces Version: 3 / CH

Print date: 30.12.16

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

1.1. Product identifier

Iodi solutio ethanolica

Item No. 21580100

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 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)

Flam. Liq. 2 H225

STOT RE 2 H373

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 ***

H225

Highly flammable liquid and vapour.

H373

May cause damage to organs through prolonged or repeated exposure:

Thyroid

Route of exposure: oral

Precautionary statements ***

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260

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

P280

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

P314

Get medical advice/attention if you feel unwell.

P403+P233

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

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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

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture. Repeated exposure may cause skin dryness or cracking. Irritating to eyes, respiratory system and skin.

SECTION 3: Composition/information on ingredients *****Chemical characterization**

Alcoholic solution

Medicinal products

Hazardous ingredients (Regulation (EC) No. 1272/2008) *****Iodine**

CAS No. 7553-56-2

EINECS no. 231-442-4

Registration no. 01-2119485285-30-XXXX

Concentration ≥ 6 < 10 %

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

Acute Tox. 4 H332

Acute Tox. 4 H312

Eye Irrit. 2 H319

Skin Irrit. 2 H315

STOT RE 1 H372

STOT SE 3 H335

Thyroid; Route of exposure: oral
Respiratory tract; Route of exposure: inhalative

Aquatic Acute 1 H400

Further ingredients**Ethanol**

CAS No. 64-17-5

EINECS no. 200-578-6

Concentration ≥ 50 %

Advice: [4]

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

Flam. Liq. 2 H225

Water

CAS No. 7732-18-5

EINECS no. 231-791-2

Concentration ≥ 1 < 10 %

Advice: [4]

Potassium iodide

CAS No. 7681-11-0

EINECS no. 231-659-4

Concentration ≥ 1 < 10 %

Advice: [4]

Methanol

CAS No. 67-56-1

EINECS no. 200-659-6

Registration no. 01-2119433307-44-XXXX

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Concentration	<	1	%	
Advice: [4]				
Classification (Regulation (EC) No. 1272/2008)				
Flam. Liq. 2		H225		
Acute Tox. 3		H331		Route of exposure: inhalative
Acute Tox. 3		H311		Route of exposure: dermal
Acute Tox. 3		H301		Route of exposure: oral
STOT SE 1		H370		Eyes; Route of exposure: oral
Concentration limits (Regulation (EC) No. 1272/2008)				
STOT SE 1		H370	>= 10	
STOT SE 2		H371	>= 3 < 10	

Advice:

[4] Voluntary information

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

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash immediately with plenty of water for several minutes. Consult a doctor if skin irritation persists.

After eye contact

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

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

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

Headache, Dizziness, Dizziness, Unconsciousness, Nausea

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

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureIn case of fires, hazardous combustion gases are formed; Carbon monoxide (CO); Carbon dioxide (CO₂)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

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

Use personal protective clothing. Remove persons to safety. Ensure adequate ventilation. Keep away

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sources of ignition.

6.2. Environmental precautions

Dilute with lot of water. Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust).

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

Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

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

Keep tightly closed in a dry and cool place.

Further information on storage conditions

Product is hygroscopic. Store only in the open air or in explosion-proof rooms.

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

List	SUVA			
Type	MAK			
Value	960	mg/m ³	500	ppm(V)
Short term exposure limit	1920	mg/m ³	1000	ppm(V)
Pregnancy group: S; Status: 2014				

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; Status: 2014				

8.2. Exposure controls**General protective and hygiene measures**

Wash hands before breaks and after work.

Respiratory protection

Not necessary, but do not inhale vapours.

Hand protection

impermeable gloves

Eye protection

Tightly fitting safety glasses

Body protection

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Fire-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid, clear
Colour dark brown
Odour characteristic

Initial boiling point and boiling range

Value > 78 °C
 Source GESTIS-Stoffdatenbank
 (<http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp>)

Flash point

Value < 21 °C
 Source GESTIS-Stoffdatenbank
 (<http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp>)

Vapour pressure

Value < 58 hPa
 Source GESTIS-Stoffdatenbank
 (<http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp>)

Density

Value appr. 0.89
 Remarks Relative Density according specification

Decomposition temperature

Remarks No decomposition if used as prescribed.

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Decomposition temperature

Remarks No decomposition if used as prescribed.

10.5. Incompatible materials

Reactions with strong oxidising agents. Reactions with strong acids. Reactions with earth alkali metals.
 Reactions with alkali metals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE 46.1538 mg/kg
 Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)

Potassium iodide

Species rat
 LD50 2779 mg/kg
 Source Safety Data Sheet Supplier

Ethanol

Species rat
 LD50 7060 mg/kg
 Source Toxicology and Applied Pharmacology. Vol. 16, Pg. 718, 1970.

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Iodine

Species	rat		
LD50	14000		mg/kg
Source	RTECS		

Iodine

Species	rat (female)		
NOAEL	3		mg/g
Duration of exposure	100	d	

Iodine

Species	rat (female)		
LOAEL	10		mg/g
Duration of exposure	100	d	
Method	OECD 408		

Iodine

Species	rat		
NOAEL	10		mg/kg
Duration of exposure	47	d	
Source	Merck KGaA Safety Data Sheet		
Source	OECD Prüfrichtlinie 422		

Acute dermal toxicity

ATE	> 10'000		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	> 20		mg/l
Administration/Form	Dust/Mist		
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute inhalative toxicity (Components)**Iodine**

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

Skin corrosion/irritation

Remarks	Irritating effects on the skin and mucous membrane.
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Serious eye damage/irritation

Remarks	Irritating to eyes and skin.
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Sensitization

Remarks	No sensitisation effect known.
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Sensitization (Components)**Iodine**

Species	mouse		
evaluation	non-sensitizing		
Method	OECD 429		

Mutagenicity (Components)

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Iodine

Species	mouse
evaluation	No mutagenicity according to various in vitro tests.
Method	OECD 476

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****Potassium iodide**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	8960	mg/l
Duration of exposure	96	h
Source	ECOTOX Database	

Iodine

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	1.67	mg/l
Duration of exposure	96	h
Source	ECHA	

Daphnia toxicity (Components)**Iodine**

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

Algae toxicity (Components)**Iodine**

Species	Desmodesmus subspicatus	
ErC50	0.13	mg/l
Duration of exposure	72	h
Method	OECD 201	
Source	LS-2305-00 SDB Merck 20140526	

Iodine

Species	Desmodesmus subspicatus	
NOEC	0.025	mg/l
Duration of exposure	72	h
Method	OECD 201	
Source	LS-2305-00 SDB Merck 20140526	

Bacteria toxicity (Components)**Iodine**

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

12.2. Persistence and degradability**Biodegradability**

Remarks	The product is readily biodegradable according to OECD criteria.
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12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****Iodine**

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log Pow	2.49
Method	experimental

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

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. The product is easily volatile.

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

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

SECTION 14: Transport information *****Land transport ADR/RID *******14.1. UN number**

UN 1293

14.2. UN proper shipping name

TINCTURES, MEDICINAL (Ethanol)

14.3. Transport hazard class(es)

Class	3
Label	3

14.4. Packing group

Packing group	II
Limited Quantity	1 I
Transport category	2
Tunnel restriction code	D/E

Marine transport IMDG/GGVSee *****14.1. UN number**

UN 1293

14.2. UN proper shipping name

TINCTURES, MEDICINAL (Ethanol)

14.3. Transport hazard class(es)

Class	3
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14.4. Packing group

Packing group	II
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Air transport ICAO/IATA *****14.1. UN number**

UN 1293

14.2. UN proper shipping name

TINCTURES, MEDICINAL (Ethanol)

14.3. Transport hazard class(es)

Class	3
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14.4. Packing group

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

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or mixture**Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 3

Remarks Classification according to Annex 4 VwVwS

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.