


<p>Page 1 of 5</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Povidon-Iod, API</p>	 <p>Revision Date 26.11.2018</p>
---	---	---

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

· **Informations to product No. 2546**

· **Product name:**

Povidon-Iod. API
Povidonium iodinum (BASF: Type 30/06)

· **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:** Danger

· **H-Phrases:**

H315 Causes skin irritation

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects

· **P-Phrases:**

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

P305 IF IN EYES:


P351 Rinse continuously with water for several minutes

P273 Avoid release to the environment

Skin Irrit. 2

Eye Dam. 1

Aquatic Chronic 2

Page 2 of 5 Print Date 26.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Povidon-Iod, API	 Revision Date 26.11.2018
--	--	---

3 Composition / information on ingredients

• **Chemical characterization:** Water soluble complex of iodine with polyvinylpyrrolidone (PVP, Povidon), used as disinfectant or antiseptic agent.

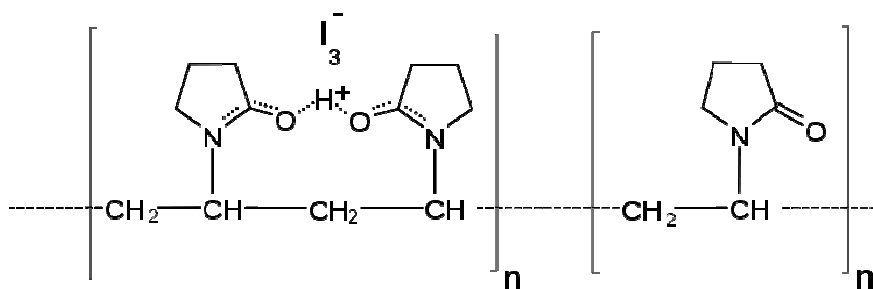
CAS-No. Substance name

25655-41-8 PVP-Iodine

• **EINECS-No.:** 607-771-8

• **REACH Reg. No.:** (pre-registered)

• **INCI-Name:** -



4 First aid measures


- **after inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **After eye contact:** Rinse out with plenty of water with the eyelid wide open. Call in ophthalmologist, even if no immediate symptoms occur.
- **after swallowing:** Drink plenty of water. Avoid vomiting. Seek medical advice.

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:** Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases, 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:** Avoid dust generation and contact with substance. Wear suitable protective equipment according to Chapter 8 of this MSDS.
- **Methods for cleaning:** Take up dry. Avoid generation of dusts. Disposal according to Chapter 13 of

<p>Page 3 of 5</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Povidon-Iod, API</p>	 <p>Revision Date 26.11.2018</p>
---	---	---

this MSDS. Clean up with water.

• **Additional information:** Do not empty into drains, prevent from contaminating surface water or the ground water system.

7 Handling and storage

- **Handling:** Good ventilation of working place. Avoid dust formation.
- **Storage:**
- **Requirements for storage areas and containers:**
Keep container tightly closed. Cool and dry. Store at a good ventilated place..

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties


- **Form:** solid
- **Colour:** brown
- **Odour:** faint, characteristic
- **Melting point / melting range:** > 350 °C (decomposition)
- **Density:**
- **Bulk density:** 450 kg/cbm
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 200 g/l
- **pH-range:** (100 g/l, 20 °C) 1,5 - 2,5

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Decomposition above 350°C
- **Materials to avoid:** Inorganic and organic reductant, metals
- **Hazardous reactions:** Dust explosion possible.
- **Hazardous decomposition products:** none if used appropriately

11 Toxicological information

- **Acute toxicity:**
After singular oral or dermal exposure nearly not toxic.
LD50 Rat (oral): > 4.640 mg/kg
LD50 Rat (dermal): > 2.500 mg/kg (BASF-Test)
- **Irritant effect**
Irritant on skin. Danger of serious eye damage.
Primary skin irritation rabbit: Irritant. (OECD-Richtlinie 404)

<p>Page 4 of 5</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Povidon-Iod, API</p>	 <p>Revision Date 26.11.2018</p>
---	---	---

Primary irritations of mucous membranes rabbit: Danger of serious eye damage. (OECD-guideline 405)

Sensitization

No sensitization on skin in animal experiments.

Guinea pig: no sensitization (OECD-Guideline 406)

Genotoxicity

The substance did not show any mutagenic effect in the majority of the examined test systems.

Teratogenity

In animal experiments no teratogene effect.

12 Ecological information

• Aquatic toxicity:

Acute toxic for water organisms.

Fish toxicity:

LC50 (96 h) > 4,6 - 10 mg/l, *Leuciscus idus* (DIN 38412 Teil 15, static)

Aquatic invertebrates:

EC50 (48 h) 2,79 mg/l, *Daphnia magna* (OECD-guideline 202, Teil 1, static)

Water plants:

EC50 (72 h) 4,91 mg/l (growth rate), *Desmodesmus subspicatus* (OECD-guideline 201, static)

Mikroorganismen/Effect on activated sludge:

EC10 (17 h) 270 mg/l, *Pseudomonas putida* (DIN 38412 Teil 8, aerob)

• Persistence and biodegradability

(according to OECD-criteria). Not readily biodegradable. Not rapidly eliminated from water.

< 20 % DOC-reduction (3 h) (OECD-guideline 302 B) (aerob, activated sludge)

< 10 % (28 d) (ISO 14593) (aerob, activated sludge)

• **Log pOW:** 0,81

• **Water hazard class:** 2 (self classification): hazardous for water.

13 Disposal considerations

• Product:

• **Recommendation:** Disposal according to local regulations as pharmaceutical waste.

• Empty contaminated packaging:

• **Recommendation:** Disposal according to the local regulations.

14 Transport informations

• Land transport according to ADR:

• **Proper shipping name:** Environmentally hazardous substance, solid, n.o.s., Polyvinylpyrrolidone-Iodine-complex

• **Class:** 9

• **UN-number:** 3077

• **Packing group:** III


• **Classification code:** M7

• **Limited quantities (Table 3.4.6. ADR):** 5 kg

• **Hazard classification number:** 90

• **Special provisions (Chapter 3.3 ADR):** 274, 335, 601

• **Additional informations for sea transport IMDG:**

Page 5 of 5 Print Date 26.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Povidon-Iod, API	 Revision Date 26.11.2018
--	--	---

- **EMS-No.:** F-A, S-F
- **Properties:** m.p.

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:** GHS05, GHS09

- **Signal word:** Danger

- **H-Phrases:**

H315 Causes skin irritation

H318 Causes serious eye damage

H411 Toxic to aquatic life with long lasting effects

- **P-Phrases:**

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

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

P273 Avoid release to the environment

- **National regulations (Germany):**

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

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

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.