

Page 1/8

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.09.2025 Version number 2.00 (replaces version 1.00) Revision: 26.09.2025

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

· Product identifier

· Trade name: Potassium iodide, cryst., API

· Article number: 2334

· CAS Number:

7681-11-0

· EC number:

231-659-4

- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

- · Uses advised against No relevant information available.
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

**CAELO** 

Caesar & Loretz GmbH

Herderstr. 31

D-40721 Hilden

**GERMANY** 

#### · Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

· Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

## 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 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)



Page 2/8

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.09.2025 Version number 2.00 (replaces version 1.00) Revision: 26.09.2025

Trade name: Potassium iodide, cryst., API

(Contd. of page 1)

#### · Hazard pictograms



#### · Signal word Warning

#### Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

#### **Precautionary statements**

P280 Wear protective gloves.

P280 Wear eye protection / face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

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 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.

· Determination of endocrine-disrupting properties Not applicable.

#### 3 Composition/information on ingredients

- · Substances
- · CAS No. Description

CAS: 7681-11-0 potassium iodide

- · Identification number(s)
- EC number: 231-659-4

#### 4 First aid measures

- Description of first aid measures
- · After inhalation:

Bring the person out of the contaminated area to fresh air.

Call a doctor 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.

(Contd. on page 3)



Page 3/8

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.09.2025 Version number 2.00 (replaces version 1.00) Revision: 26.09.2025

Trade name: Potassium iodide, cryst., API

(Contd. of page 2)

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

· 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 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

- · Special hazards arising from the substance or mixture iodine vapor
- Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Take up dry. Clean up with water.
- · 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

- · Precautions for safe handling Provide eye rinsing kit.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Storage class: TRHS 510: 13 non-combustible solids
- · Specific end use(s) No further relevant information available.

(Contd. on page 4)



Page 4/8

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.09.2025 Version number 2.00 (replaces version 1.00) Revision: 26.09.2025

Trade name: Potassium iodide, cryst., API

(Contd. of page 3)

## 8 Exposure controls/personal protection

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

### CAS: 7681-11-0 potassium iodide

OEL Short-term value: 0.1 ppm Long-term value: 0.01\* ppm \*inhalable fraction and vapour

- · Additional information: The lists valid during the making were used as basis.
- Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Respiratory protection: Dust protection mask.
- · Hand protection Not required.
- · Material of gloves

Nitrile rubber, NBR

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/face protection Tightly sealed goggles

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Odour:
Odourless
Odour threshold:
Not determined.

· Melting point/freezing point: 681 °C

Boiling point or initial boiling point and boiling

range 1,323 °C

• Flammability Product is not flammable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.

6.5

(Contd. on page 5)



Page 5/8

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.09.2025 Version number 2.00 (replaces version 1.00) Revision: 26.09.2025

Trade name: Potassium iodide, cryst., API

(Contd. of page 4)

· Viscosity:

Kinematic viscosityDynamic:Not applicable.Not applicable.

· Solubility

• water at 20 °C: 1.430 g/l

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not determined.
 Not applicable.

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Particle characteristics
 3.13 g/cm³
 Not determined.
 Not applicable.
 Not determined

· Other information

· Appearance:

· Form: Powder

Important information on protection of health

and environment, and on safety.

· **Ignition temperature**: Not determined.

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

· Change in condition

· Evaporation rate Not applicable.

Information with regard to physical hazard classes

 Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void Void

gases in contact with water Void
Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void
Corrosive to metals Void
Desensitised explosives Void

#### 10 Stability and reactivity

· Reactivity No further relevant information available.

(Contd. on page 6)



Page 6/8

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.09.2025 Version number 2.00 (replaces version 1.00) Revision: 26.09.2025

Trade name: Potassium iodide, cryst., API

(Contd. of page 5)

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions Reacts with oxidising agents.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Metals

metals in powder form

non-metals

alkali metals

ammonium compounds

· Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.
- LD/LC50 values relevant for classification:

Oral LD50 2,500 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · 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 Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

### 12 Ecological information

- · Toxicity
- Aquatic toxicity:

LC50 356.8 mg/L (algae)

EC50 356.8 mg/L (algae)

219.4 mg/L (Microorganism)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

(Contd. on page 7)



Page 7/8

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.09.2025 Version number 2.00 (replaces version 1.00) Revision: 26.09.2025

Trade name: Potassium iodide, cryst., API

(Contd. of page 6)

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects
- 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.

### 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 local regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

### \*14 Transport information

UN number or ID number
 Not subject to transport regulations.

ADR, IMDG, IATA not regulated

· UN proper shipping name

· ADR, IMDG, IATA not regulated

· Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class not regulated

· Packing group

· ADR, IMDG, IATA not regulated
· Environmental hazards: Not applicable.
· Special precautions for user Not applicable.

Maritime transport in bulk according to IMO

instruments Not applicable.
UN "Model Regulation": not regulated

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed

(Contd. on page 8)



Page 8/8

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 26.09.2025 Version number 2.00 (replaces version 1.00) Revision: 26.09.2025

Trade name: Potassium iodide, cryst., API

(Contd. of page 7)

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

· National regulations:

· Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 13 non-combustible solids

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

#### 16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

• Reasons for alterations This version replaces all old versions.

Date of previous version: 04.04.2024

· Version number of previous version: 1.00

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

\* Data compared to the previous version altered.

ΙE