

Trade name: Potassium iodide**Current version :** 5.0.1, issued: 09.11.2021**Replaced version:** 5.0.0, issued: 06.11.2019**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Potassium iodide**

Substance name potassium iodide
REACH registration no. 01-2119906339-35-XXXX

Identification numbers

CAS no. 7681-11-0
EC no. 231-659-4

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

laboratory chemicals
Polymer additive
production of LC displays
doping of activated carbon
photo chemicals
feed- and food additive
pharmaceuticals

Uses advised against

Biocide
disinfectant

1.3 Details of the supplier of the safety data sheet**Address**

LIQUICHEM Handelsgesellschaft mbH
Kajen 6 – 8
D-20459 Hamburg

Telephone no. 040 89 97 89 0
Fax no. 040 89 97 89 9
e-mail hamburg@liquichem.de

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

STOT RE 1; H372

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Product identifier**

7681-11-0 (potassium iodide)

Trade name: Potassium iodide**Current version :** 5.0.1, issued: 09.11.2021**Replaced version:** 5.0.0, issued: 06.11.2019**Region:** GB**Hazard pictograms**

GHS08

Signal word

Danger

Hazard statement(s)

H372 Causes damage to thyroid through prolonged or repeated exposure.

Precautionary statement(s)

P260 Do not breathe dust or mist.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances****Chemical characterization**

Substance name potassium iodide

Identification numbers

CAS no. 7681-11-0

EC no. 231-659-4

3.2 Mixtures

Not applicable. The product is not a mixture.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

In case of contact with skin wash off immediately with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Trade name: Potassium iodide**Current version :** 5.0.1, issued: 09.11.2021**Replaced version:** 5.0.0, issued: 06.11.2019**Region:** GB**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Dry chemical extinguisher; Carbon dioxide; Alcohol-resistant foam

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Hydrogen iodide (HJ); Potassium oxide

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

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

Collect mechanically. When collected, handle material as described under the section heading "Disposal considerations". Avoid raising dust.

6.4 Reference to other sections

No data available.

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

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid eye, skin and clothing contact. Avoid the formation and deposition of dust.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale dust. Provide eye wash fountain in work area.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place. Protect from sun. Protect from atmospheric moisture and water.

Recommended storage temperature

Value 15 - 30 °C

Requirements for storage rooms and vessels

Always keep in containers of same material as the original.

Incompatible products

Do not store together with: oxidizing agents

7.3 Specific end use(s)

No data available.

Trade name: Potassium iodide

Current version : 5.0.1, issued: 09.11.2021

Replaced version: 5.0.0, issued: 06.11.2019

Region: GB

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	potassium iodide			7681-11-0 231-659-4	
	dermal	Long term (chronic)	systemic	1.066	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.8807	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	potassium iodide			7681-11-0 231-659-4	
	oral	Long term (chronic)	systemic	0.2666	mg/kg/day
	dermal	Long term (chronic)	systemic	0.5333	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.4637	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	potassium iodide		7681-11-0 231-659-4	
	water	fresh water	0.1	mg/L
	water	marine water	0.01	mg/L
	water	Aqua intermittent	1	mg/L
	water	fresh water sediment	106.987	mg/kg dry weight
	water	marine water sediment	106.987	mg/kg dry weight
	soil	-	31.1488	mg/kg dry weight
	sewage treatment plant	-	35.83	mg/L

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified. Short term: filter apparatus, Filter P1

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

Trade name: Potassium iodide

Current version : 5.0.1, issued: 09.11.2021

Replaced version: 5.0.0, issued: 06.11.2019

Region: GB

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation		
solid		
Form/Colour		
solid		
white		
Odour		
odourless		
pH value		
Value	7.5	
Reference temperature	26	°C
Concentration	1	% aqueous solution
Boiling point / boiling range		
Value	1325	°C
Melting point/freezing point		
Value	685	°C
Decomposition temperature		
No data available		
Flash point		
Not applicable		
Ignition temperature		
No data available		
Auto-ignition temperature		
Comments	Product is not selfigniting.	
Explosive properties		
Product does not present an explosion hazard.		
Flammability		
not flammable		
Lower explosion limit		
No data available		
Upper explosion limit		
No data available		
Vapour pressure		
No data available		
Relative vapour density		
No data available		
Relative density		
No data available		
Density		
Value	3.213	g/cm ³
Reference temperature	25	°C
Solubility in water		
Value	1260	g/l
Reference temperature	25	°C

Trade name: Potassium iodide

Current version : 5.0.1, issued: 09.11.2021

Replaced version: 5.0.0, issued: 06.11.2019

Region: GB

Solubility	
No data available	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	potassium iodide	7681-11-0	231-659-4
log Pow		-0.958	
Reference temperature		25	°C
Source		ECHA	

Viscosity	
No data available	

Particle characteristics	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Heat; Moisture. Protect from sun.

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Hydrogen iodide (HJ); Potassium oxide

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	potassium iodide	7681-11-0	231-659-4
LD50		2500	mg/kg bodyweight
Species		rat	
Method		OECD 423	
Source		ECHA	

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	potassium iodide	7681-11-0	231-659-4
LD50		> 2000	mg/kg bodyweight
Species		rat	
Method		OECD 402	
Source		ECHA	

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation	

Trade name: Potassium iodide

Current version : 5.0.1, issued: 09.11.2021

Replaced version: 5.0.0, issued: 06.11.2019

Region: GB

No	Substance name	CAS no.	EC no.
1	potassium iodide	7681-11-0	231-659-4
Species with reference to		rabbit	
Method		CAS 7681-82-5	
Source		OECD 404	
Evaluation		ECHA	
		non-irritant	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	potassium iodide	7681-11-0	231-659-4
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	potassium iodide	7681-11-0	231-659-4
Route of exposure		Skin	
Species		Human	
Method		Patch-Test	
Source		ECHA	
Evaluation		non-sensitizing	

Germ cell mutagenicity			
No data available			

Reproduction toxicity			
No data available			

Carcinogenicity			
No data available			

STOT - single exposure			
No data available			

STOT - repeated exposure			
No data available			

Aspiration hazard			
No data available			

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	potassium iodide	7681-11-0	231-659-4
LC50		>	100 mg/l
Duration of exposure			96 h
Species		Danio rerio	
Method		OECD 203	
Source		ECHA	

Toxicity to fish (chronic)			
No data available			

Trade name: Potassium iodide**Current version :** 5.0.1, issued: 09.11.2021**Replaced version:** 5.0.0, issued: 06.11.2019**Region:** GB**Toxicity to Daphnia (acute)**

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

No	Substance name	CAS no.	EC no.
1	potassium iodide	7681-11-0	231-659-4
log Pow		-0.958	
Reference temperature		25	°C
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information**Other information**

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

Trade name: Potassium iodide

Current version : 5.0.1, issued: 09.11.2021

Replaced version: 5.0.0, issued: 06.11.2019

Region: GB

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This substance is not subject to Part 1 or 2 of Annex I

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Trade name: Potassium iodide

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