

Trade name: Potassium iodide

Current version : 6.0.0, issued: 03.05.2018

Replaced version: 5.0.0, issued: 03.05.2018

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**

Plastic additives

**Uses advised against**

None known

**Reference to relevant exposure scenarios**

For an overview of the exact titles of the relevant exposure scenarios please refer to section 16 of this SDS.

**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

**Information provided by / telephone**

+49 (0)40 899 789 0

**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)

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**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/fume/gas/mist/vapours/spray.  
P264 Wash hands 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/regional/national/international regulations.

**2.3 Other hazards**

No data available.

**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 immediately, 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 copious amounts of water.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person.

**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**

Treat symptomatically

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray jet; Dry chemical extinguisher; Carbon dioxide; 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: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

### 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

Take up mechanically. When picked up, treat material as prescribed under 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. Take precautionary measures against static charges. Dust can form an explosive mixture with air.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

#### Recommended storage temperature

Value 10 - 25 °C

#### Requirements for storage rooms and vessels

Always keep in containers of same material as the original one.

#### Advice on storage assembly

Do not store together with: Alkalis; Ammonia; halogen compounds; Fluorine; Oxidizing agents; hydrogen peroxide

### 7.3 Specific end use(s)

No data available.

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**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			<b>7681-11-0</b> <b>231-659-4</b>
	dermal	Long term (chronic)	systemic	1.066 mg/kg/day
	inhalative	Long term (chronic)	systemic	1.8807 mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	potassium iodide			<b>7681-11-0</b> <b>231-659-4</b>
	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 <sup>3</sup>

**PNEC values**

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	potassium iodide		<b>7681-11-0</b> <b>231-659-4</b>
	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 workplace threshold values are not specified.

Respirator 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 work-station 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**

Normal chemical work clothing.

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**Environmental exposure controls**  
No data available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Form/Colour</b>			
crystalline			
colourless			
<b>Odour</b>			
odourless			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
Value	appr.	7	
Reference temperature		20	°C
Concentration		50	g/l
<b>Boiling point / boiling range</b>			
Value		1330	°C
<b>Melting point / melting range</b>			
Value		681	°C
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Not applicable			
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
Product does not present an explosion hazard.			
<b>Flammability (solid, gas)</b>			
not flammable			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
Value		1	hPa
Reference temperature		745	°C
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value		3.13	g/cm <sup>3</sup>
Reference temperature		20	°C

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Bulk density			
Value	appr.	1500	kg/m <sup>3</sup>
Reference temperature		20	°C

Solubility in water			
Value		1430	g/l
Reference temperature		20	°C

Solubility(ies)			
No data available			

Partition coefficient: n-octanol/water			
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			

9.2 Other information

Other information			
No data available.			

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

None, if handled according to order.

10.4 Conditions to avoid

Heat; light; Moisture.

10.5 Incompatible materials

Alkali metals; Ammonia; halogen compounds; Fluorine; Oxidizing agents; hydrogen peroxide

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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		

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<b>Acute inhalational toxicity</b>	
No data available	

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

<b>Serious eye damage/irritation</b>			
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	

<b>Respiratory or skin sensitisation</b>			
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	

<b>Germ cell mutagenicity</b>	
No data available	

<b>Reproduction toxicity</b>	
No data available	

<b>Carcinogenicity</b>	
No data available	

<b>STOT - single exposure</b>	
No data available	

<b>STOT - repeated exposure</b>	
No data available	

<b>Aspiration hazard</b>	
No data available	

<b>Other information</b>	
Exercise customary precautions when handling chemicals.	

**SECTION 12: Ecological information**

**12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
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	

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<b>Toxicity to fish (chronic)</b>
No data available
<b>Toxicity to Daphnia (acute)</b>
No data available
<b>Toxicity to Daphnia (chronic)</b>
No data available
<b>Toxicity to algae (acute)</b>
No data available
<b>Toxicity to algae (chronic)</b>
No data available
<b>Bacteria toxicity</b>
No data available

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water			
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**

No data available.

**12.6 Other adverse effects**

No data available.

**12.7 Other information**

<b>Other information</b>
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product**

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**

Residuals 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.



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## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

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

### 14.2 Transport IMDG

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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, PREPARATIONS 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 I or 2 of Annex I

### 15.2 Chemical safety assessment

No data available.

## 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.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

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 chapter.

#### **List of existing exposition scenarios**

ES001 Manufacturing of polymer and plastics - industrial use

#### **Department issuing safety data sheet**

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

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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.

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Prod-ID 622036