

acc. to Regulation (EC) No. 1907/2006 (REACH)

# Potassium iodide p.A.

Version number: GHS 1.0

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Date of compilation: 2025-04-07

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

1.1	Product identifier						
	Identification of the substance	Potassium iodide p.A.					
	CAS number	7681-11-0					
	Article number	LC-4787					

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

#### 1.3 Details of the supplier of the safety data sheet

NeoFroxx GmbH Marie-Curie-Str. 3 D-64683 Einhausen Germany

Telephone: +49 (6251) 989 24 - 0 e-mail: info@neofroxx.com Website: neofroxx.com

#### e-mail (competent person)

info@neofroxx.com (neoFroxx GmbH)

#### 1.4 **Emergency telephone number**

Poison centre					
Country	Name	Postal code/city	Telephone		
United Kingdom	National Poisons Information Service		111		

# **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1

# **Classification acc. to GHS**

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
3.9	specific target organ toxicity - repeated exposure	1	STOT RE 1	H372
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

# The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

# Labelling

- Signal word danger
- Pictograms

GHS08





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- Hazard statement H372 H412	S Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
- Precautionary stat	ements
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P314	Get medical advice/attention if you feel unwell.
P501	Dispose of contents/container to industrial combustion plant.

### 2.3 Other hazards

### **Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### SECTION 3: Composition/information on ingredients

# 3.1 Substances

Name of substance	Potassium iodide p.A.
Identifiers	
CAS No	7681-11-0
EC No	231-659-4
Purity	99.5 %
Molecular formula	IK
Molar mass	166 <sup>g</sup> / <sub>mol</sub>

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### **Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

# **4.2 Most important symptoms and effects, both acute and delayed** Symptoms and effects are not known to date.

# **4.3** Indication of any immediate medical attention and special treatment needed none



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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

# Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

Hydrogen iodide (HI)

# 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

# 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains, Take up mechanically

# Advice on how to clean up a spill

Take up mechanically.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

#### Recommendations

- Measures to prevent fire as well as aerosol and dust generation Use local and general ventilation. Use only in well-ventilated areas.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.



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# 7.2 Conditions for safe storage, including any incompatibilities

# Managing of associated risks

- Explosive atmospheres Removal of dust deposits.
- Ventilation requirements Use local and general ventilation.

# 7.3 Specific end use(s)

See section 16 for a general overview.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

Occup	Occupational exposure limit values (Workplace Exposure Limits)										
Coun- try	Name of agent	CAS No	Identi- fier		TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
GB	dust		WEL		10					i	EH40/20 05
GB	dust		WEL		4					r	EH40/20 05

# <u>Notation</u>

Ceiling-C	ceiling value is a limit value above which exposure should not occur
i	inhalable fraction
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute peri- od (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

# Human health values

Relevant DNELs and other threshold levels					
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time	
DNEL	0.07 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects	
DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	

### **Environmental values**

Relevant PNECs and other threshold levels					
Endpoint	Threshold level	Organism	Environmental compartment	Exposure time	
PNEC	0.007 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)	
PNEC	0.007 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)	

# 8.2 Exposure controls

# **Appropriate engineering controls**

General ventilation.



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# Individual protection measures (personal protective equipment)

# **Eye/face protection**

Wear eye/face protection.

# **Skin protection**

- Hand protection Wear protective gloves.
- Type of material NBR: acrylonitrile-butadiene rubber
- Material thickness

min. 0,11 mm

- Breakthrough times of the glove material >480 minutes (permeation: level 6)
- Other protection measures Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### **Respiratory protection**

Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

## **Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

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

Physical state	solid
Colour	not determined
Odour	characteristic
Melting point/freezing point	681 °C
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not relevant (solid)
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant

### Solubility(ies)

Water solubility	1,429 <sup>g</sup> / <sub>l</sub> at 25 °C
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# **Partition coefficient**

Partition coefficient n-octanol/water (log value)	not relevant (inorganic)
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Vapour pressure	not determined
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# Density and/or relative density

Density	3.12 <sup>g</sup> / <sub>cm³</sub> at 20 °C
Relative vapour density	not relevant (solid)

# **Particle characteristics**

Particle size	221.6 µm
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## 9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

# 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

# 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

# **10.5** Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# **11.1** Information on toxicological effects

#### **Classification acc. to GHS**

#### Acute toxicity

Shall not be classified as acutely toxic. GHS of the United Nations, annex 4: May be harmful if swallowed.



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Acute toxicity			
Exposure route	Endpoint	Value	Species
oral	LD50	3,118 <sup>mg</sup> / <sub>kg</sub>	rat
oral	LD50	2,779 <sup>mg</sup> / <sub>kg</sub>	rat
oral	LD50	3,129 <sup>mg</sup> / <sub>kg</sub>	rat

# Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

# **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

## **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

# 12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

# Data are not available.

# 12.4 Mobility in soil

Data are not available.

# 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

# 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

# 12.7 Other adverse effects

Data are not available.



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# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

### Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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# 14.6 Special precautions for user

SECTION 14: Transport information

There is no additional information.

### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### **Information for each of the UN Model Regulations**

# International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

#### Deco-Paint Directive

	VOC content	0 %
,	Industrial Emissions Divestive (IED)	

# Industrial Emissions Directive (IED)

VOC content

0 %



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# Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
Potassium iodide p.A.		a)	

#### <u>Legend</u>

a) Indicative list of the main pollutants

### **Regulation on persistent organic pollutants (POP)**

not listed

### National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

### **Restrictions according to GB REACH, Annex 17**

not listed

# National inventories

Country	Inventory	Status
EU	REACH Reg.	substance is listed

Legend

REACH Reg. REACH registered substances

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

# Abbreviations and acronyms

Abbr. Descriptions of used abbreviations	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association



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Abbr. Descriptions of used abbreviations	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text	
H372	Causes damage to organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.