

Revised on: 14.12.2017

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

1.1. Product identifier

Trade name: Potassium iodide p.A

Article number: LC-4787

CAS Number: 7681-11-0

EC number: 231-659-4

Registration number: 01-2119966161-40-XXXX

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

No further relevant information available.

Application of the substance / the mixture:

- Chemical analytics
- Biochemistry
- Laboratory chemical

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

neoFroxx GmbH
Marie-Curie-Str. 3
D-64683 Einhausen
info@neofroxx.com

Further information obtainable from:

Dep. Quality Control

1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS 08

Signal word: Danger

Hazard statements:

H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

Precautionary statements:

P235+P410 Keep cool. Protect from sunlight.

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P264 Wash thoroughly after handling.

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

P314 Get medical advice/attention if you feel unwell

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

3. Composition / information on ingredients

3.1. Chemical characterisation: Substances

CAS No. Description:

7681-11-0 potassium iodide

Identification number(s):

EC number: 231-659-4

4. First aid measures

4.1. Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Involve doctor immediately.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately rinse with water.

Immediately remove any clothing soiled by the product.

If skin irritation continues, consult a doctor.

After eye contact:

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

After swallowing: Make victim drink water (maximum of 2 drinking glasses)

Induce vomiting and call for medical help.

Call a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

In adaption to materials stored in the immediate neighbourhood.

CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water

5.2. Special hazards arising from the substance or mixture

Non-combustible.

Metal oxides

Hydrogen iodid

Ambient fire may liberate hazardous vapours.

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5.3. Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device. Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.
Do not inhale dust.
Avoid substance contact.
Ensure adequate ventilation

6.2. Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up:

Pick up mechanically.
Avoid generation of dusts.
Dispose contaminated material as waste according to item 13.
Clean up affected area.

6.4. 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

7.1. Precautions for safe handling

Provide suction extractors if dust is formed.
Any unavoidable deposit of dust must be regularly removed.
Information about fire - and explosion protection: The product is not flammable.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Store away from oxidising agents.
Further information about storage conditions: Store under lock and key and with access restricted to technical experts or their assistants only.
Keep container sealed.
Recommended storage temperature: +15 - +25 °C
Storage class: 6.1 D

7.3. Specific end use(s)

No further relevant information available.

8. Exposure controls / personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.
Additional information: The lists valid during the making were used as basis.

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8.2. Exposure controls

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.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Respiratory protection:

Required when dusts are generated.

Filter P3

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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.

For the permanent contact gloves made of the following materials are suitable:

Recommended thickness of the material: ≥ 0.11 mm

Butyl rubber, BR

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Recommended thickness of the material: ≥ 0.11 mm

Butyl rubber, BR

Value for the permeation: Level ≥ 480 min

Eye protection: Safety glasses

Body protection: Use protective suit.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid

Colour: White

Odour: Odourless

Odour threshold: Not determined.

pH-value: 6-9

Change in condition

Melting point/freezing point: 686 °C

Initial boiling point and boiling range: 1,323 °C

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Flash point: Not applicable.

Flammability (solid, gas): Product is not flammable.

Ignition temperature:

Decomposition temperature: Not determined.

Auto-ignition temperature: Not determined.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapour pressure: Not applicable.

Density at 20 °C: 3.12 g/cm³

Bulk density at 20 °C: 1,500 kg/m³

Relative density Not determined.

Vapour density Not applicable.

Evaporation rate Not applicable.

Solubility in / Miscibility with water at 20 °C: 1440 g/l

Partition coefficient: n-octanol/water: 0.03981055

Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

9.2. Other information

No further relevant information available.

10. Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions No dangerous reactions known.

10.4. Conditions to avoid Reacts with humid air, light

10.5. Incompatible materials:

metals

oxidizing agent

strong acids

10.6. Hazardous decomposition products:

In the event of fire: See chapter 5

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification: Quantitative data on the toxicological effect of the product are not available.

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Components	Type	Value	Species
Oral	LD50	3118 mg/kg	(mouse)
		2779 mg/kg	(rat)

Primary irritant effect:

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/irritation May cause eye irritation.

After inhalation: After inhalation of dust:

Irritation symptoms in the respiratory tract.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

Aspiration hazard Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Aquatic toxicity: No further relevant information available.

Type of test **Effective concentration** **Method** **Assessment**

LC50/96 h 896 mg/l (fish)

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Distribution log Pow < 1.

12.4. Mobility in soil

No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow to enter waters, waste water, or soil.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

14. Transport information

14.1. UN-Number

ADR, ADN, IMDG, IATA Void

14.2. UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3. Transport hazard class(es)

ADR, ADN, IMDG, IATA Class Void

14.4. Packing group

ADR, IMDG, IATA Void

14.5. Environmental hazards:

Marine pollutant: No

14.6. Special precautions for user

Not applicable.

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

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

UN "Model Regulation": Void

15. Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

15.2. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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According to 1907/2006/EC, Article 31

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EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1