

Potassium iodide 2 mol/l pH 7 20°C (pH traceable to NIST)

Date 24.11.2019

Previous date: 21.11.2011

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

Potassium iodide 2 mol/l pH 7 20°C (pH traceable to NIST)

1.1.2 Product code

FF509 10 L

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

Laboratory chemical

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Oy FF-Chemicals Ab

Street address

Teollisuustie 4

Postcode and post office

FI-90830 HAUKIPUDAS

Finland

Telephone

+358 8 5563 193

Telefax

+358 8 5563 194

Business ID

05851808

Email

ffc@ff-chemicals.fi

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

Please contact the Emergency Centre in your own country.

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****1272/2008 (CLP)**

STOT RE 1, H372

2.2 Label elements**1272/2008 (CLP)**

GHS08

Signal word

Danger**Hazard Statements**

H372

Causes damage to organs (thyroid gland) through prolonged or repeated exposure (if swallowed).

Precautionary Statements

P260

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

P264

Wash hands thoroughly after handling.

P280

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

P314

Get medical advice/attention if you feel unwell.

2.3 Other hazards

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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components****CAS/EC and
Reg.number****EINECS****Chemical name of the
substance****Concentration****Classification**

7681-11-0

231-659-4

Potassium iodide

~33%

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3.3 Other information

The full text of hazard statements are given in chapter 16.

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4. FIRST AID MEASURES**4.1 Description of first aid measures**

Remove patient from exposure. Take off contaminated clothing. First aid personnel has to wear personal protective equipment.

4.1.2 Inhalation

Move into fresh air.

4.1.3 Skin contact

Wash with plenty of soap and water.

4.1.4 Eye contact

Rinse immediately with plenty of water also under eye lids. Contact an ophthalmologist if irritation persists.

4.1.5 Ingestion

If conscious, rinse mouth with water. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Causes damage to organs (thyroid gland) through prolonged or repeated exposure (if swallowed).

4.3 Indication of immediate medical attention and special treatment needed

N/A

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Water mist, carbon dioxide, dry powder or foam.

5.1.2 Extinguishing media which must not be used for safety reasons

N/A

5.2 Special hazards arising from the substance or mixture

Non-combustible.

5.3 Advice for firefighters

Wear chemical protective suit and pressurized respirator.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate the contaminated area. Wear personal protective equipment. Ventilate the area.

6.2 Environmental precautions

Prevent entry into drains, sewers, soil or watercourses.

6.3 Methods and materials for containment and cleaning up

Absorb in suitable absorption material and collect for disposal. Clean surfaces and ventilate the area.

6.4 Reference to other sections

4, 8, 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid contact with eyes, skin and clothing. Use fume hood or personal protection equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature.

7.3 Specific end use(s)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

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8.1.2 Other information on limit values

Potassium iodide:
 GB: dust Inhalable fraction WEL 10 EH40/2005
 GB: dust Respirable fraction WEL 4 EH40/2005

8.1.4 DNELs

Potassium iodide:
 DNEL: 0,07 mg/m³ human, inhalatory, worker (industry) chronic - systemic effects
 DNEL: 1 mg/kg bw/day human, dermal, worker (industry) chronic - systemic effects

8.1.5 PNECs

Potassium iodide:
 PNEC: 0,007 mg/l freshwater short-term (single instance)
 PNEC: 0,007 mg/kg freshwater sediment short-term (single instance)

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Ensure adequate ventilation. Use only under a chemical fume hood. Take off contaminated clothing, clean before reuse.
 Wash hands after handling.

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Wear respirator, if vapours or mist are emitted into workplace air.

8.2.2.2 Hand protection

Protective gloves.

8.2.2.3 Eye/face protection

Goggles (European standard - EN 166).

8.2.2.4 Skin protection

Laboratory coat, long sleeves.

8.2.3 Environmental exposure controls

Prevent entry into drains, sewers, soil or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Liquid, colourless.

9.1.2 Odour

odourless

9.1.3 Odour threshold

N/A

9.1.4 pH

7

9.1.5 Melting point/freezing point

N/A

9.1.6 Initial boiling point and boiling range

N/A

9.1.7 Flash point

Not applicable.

9.1.8 Evaporation rate

N/A

9.1.9 Flammability (solid, gas)

Nonflammable.

9.1.10 Explosive properties**9.1.10.1 Lower explosion limit**

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9.1.10.2 Upper explosion limit

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9.1.11 Vapour pressure

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9.1.12 Vapour density

No information available.

9.1.13 Relative density

No information available.

9.1.14 Solubility(ies)**9.1.14.1 Water solubility**

Soluble in water.

9.1.15 Partition coefficient: n-octanol/water

No information available.

9.1.16 Auto-ignition temperature

Nonflammable.

9.1.17 Decomposition temperature

No information available.

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9.1.18	Viscosity	No information available.
9.1.19	Explosive properties	No information available.
9.1.20	Oxidising properties	No information available.
9.2	Other information	
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10. STABILITY AND REACTIVITY

10.1	Reactivity	Stable in normal conditions.
10.2	Chemical stability	Stable in normal conditions.
10.3	Possibility of hazardous reactions	N/A
10.4	Conditions to avoid	Excess heat.
10.5	Incompatible materials	N/A
10.6	Hazardous decomposition products	N/A

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
11.1.1	Acute toxicity	Not classified. Potassium iodide: Dermal LD50 >2.000 mg/kg rat ECHA Oral LD50 2.779 mg/kg rat ECHA
11.1.2	Irritation and corrosion	Not classified.
11.1.3	Sensitisation	Not classified.
11.1.4	Subacute, subchronic and prolonged toxicity	Not classified.
11.1.5	STOT-single exposure	Not classified.
11.1.6	STOT-repeated exposure	Causes damage to organs (thyroid gland) through prolonged or repeated exposure (if swallowed).
11.1.7	Aspiration hazard	Not classified.
11.1.8	Other information on acute toxicity	-

12. ECOLOGICAL INFORMATION

12.1	Toxicity	
12.1.1	Aquatic toxicity	Not expected to cause any harm to the environment.
12.1.2	Toxicity to other organisms	N/A

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12.2 Persistence and degradability**12.2.1 Biodegradation**

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Mobile, water solution.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose as hazardous waste.

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

13.2 Waste from residues / unused products

Do not empty into drains.

14. TRANSPORT INFORMATION**14.1 UN number**

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14.2 UN proper shipping name

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14.3 Transport hazard class(es)

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14.4 Packing group

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14.5 Environmental hazards

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14.6 Special precautions for users

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

REACH regulation

CLP regulation

15.2 Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) is not available for this substance.

16. OTHER INFORMATION**16.1 Additions, Deletions, Revisions**

General revision.

16.3 Key literature references and sources for data

ECHA C&L Inventory

16.4 Classification procedure

CLP regulation (1272/2008/EC)

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

H372

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16.6 Training advice

Handling of hazardous chemicals.

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16.7 Recommended restrictions

Access only for authorized personnel.

16.8 Additional information available from:Oy FF-Chemicals Ab, Finland, tel. +358 8 5563 193
ffc@ff-chemicals.fi

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.