

according to Regulation (EC) No. 1907/2006

Revision Date 31.07.2018

Version 10.0

ECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier	
Catalogue No.	106523
Product name	Sodium iodide for analysis EMSURE® ACS,Reag. Ph Eur
REACH Registration Number	01-2119908880-36-XXXX
CAS-No.	7681-82-5
1.2 Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	Reagent for analysis
	For additional information on uses please refer to the Merck Chemicals portal (www.merckgroup.com).
1.3 Details of the supplier of th	e safety data sheet
Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com
1.4 Emergency telephone number	Please contact the regional company representation in your country.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - repeated exposure, Category 1, Oral, Thyroid, H372 Acute aquatic toxicity, Category 1, H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

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Product name

106523 Sodium iodide for analysis EMSURE® ACS,Reag. Ph Eur

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger

Hazard statements

H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed. H400 Very toxic to aquatic life.

Precautionary statements

Prevention

P273 Avoid release to the environment.

Response

P314 Get medical advice/ attention if you feel unwell.

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word Danger

-

Hazard statements

H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed.

Contains: sodium iodide

CAS-No. 7681-82-5

according to Regulation (EC) No. 1907/2006

Catalogue No.106523Product nameSodium iodide for analysis EMSURE® ACS,Reag. Ph Eur

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

Formula		Nal	INa (Hill)
EC-No.		231-679-3	
Molar mass		149,89 g/n	nol
	mponents (REG e (Concentration)		(EC) No 1272/2008)
CAS-No.	Registration nu	mber Cl	assification
sodium iodide ((<= 100 %)		
7681-82-5	01-2119908880)-36-	
	XXXX	Sp	pecific target organ toxicity - repeated exposure, Category 1,
		H	372
		Ac	cute aquatic toxicity, Category 1, H400
			M-Factor: 1
For the full text	of the H-Statem	ents mentio	ned in this Section, see Section 16.

3.2 Mixture

Not applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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4.2 Most important symptoms and effects, both acute and delayed

Fever, Vomiting

The following applies to iodides in general: Sensitisation possible in predisposed persons.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of: hydrogen iodide

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

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Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage 7.1 Precautions for safe handling

Advice on safe handling

Observe label precautions.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed. Dry.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

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Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

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Other protective equipment protective clothing

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties 9.1 Information on basic physical and chemical properties

Form	powder
Colour	colourless
Odour	odourless
Odour Threshold	Not applicable
рН	ca. 6 - 9 at 50 g/l 20 °C
Melting point	659 °C at 975 hPa
Boiling point/boiling range	1.304 °C at ca. 975 hPa

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Product name	Sodium iodide for analysis EMSURE® ACS,Reag. Ph Eur
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	ca.1 hPa
	at 767 °C
Relative vapour density	No information available.
Density	3,67 g/cm3
	at 20 °C
Relative density	No information available.
Water solubility	1.793 g/l
	at 20 °C
Partition coefficient: n-	
octanol/water	Not applicable for inorganic substances
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	Not applicable
Explosive properties	Not classified as explosive.

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Oxidizing properties	none
9.2 Other data	
Bulk density	ca.1.500 - 2.000 kg/m3
Viscosity, kinematic	Not applicable

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of explosion with:

Alkali metals, Ammonia, halogen-halogen compounds, hydrogen peroxide

Risk of ignition or formation of inflammable gases or vapours with:

perchloric acid, Fluorine

Generates dangerous gases or fumes in contact with:

Oxidizing agents

Release of:

iodine

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

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SECTION 11. Toxicological information 11.1 Information on toxicological effects

Acute oral toxicity LD50 Rat: 4.340 mg/kg

(RTECS)

Acute inhalation toxicity This information is not available. Acute dermal toxicity This information is not available. Skin irritation

Rabbit Result: slight irritation

(RTECS)

Eye irritation Rabbit Result: slight irritation

(RTECS)

Sensitisation This information is not available.

Germ cell mutagenicity This information is not available.

Carcinogenicity This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

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Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure Causes damage to organs through prolonged or repeated exposure. Exposure routes: Ingestion Target Organs: Thyroid

Aspiration hazard This information is not available.

11.2 Further information

After swallowing of large amounts:

drop in blood pressure, Vomiting, Fever

The following applies to iodides in general: Sensitisation possible in predisposed persons.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 Danio rerio (zebra fish): > 100 mg/l; 96 h OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates static test EC50 Daphnia magna (Water flea): 0,17 mg/l; 48 h (ECHA)

12.2 Persistence and degradability

Biodegradability

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

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

Not applicable for inorganic substances

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12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

106523

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)	
14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
	N.O.S. (SODIUM IODIDE)
14.3 Class	9
14.4 Packing group	III
14.5 Environmentally hazardous	yes
14.6 Special precautions for	yes
user	
Tunnel restriction code	-
Packages smaller than or equal t	o 5 kg / L , not dangerous goods of Class 9
Inland waterway transport (ADN) Not relevant	
NULTEREVAIL	
Air transport (IATA)	

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	N.O.S. (SODIUM IODIDE)	
14.3 Class	9	
14.4 Packing group	III	
14.5 Environmentally hazardous	yes	
14.6 Special precautions for	no	
user		
Packages smaller than or equal to	o 5 kg / L , not dangerous goods of Class 9	
Sea transport (IMDG)		
14.1 UN number	UN 3077	
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,	
	N.O.S. (SODIUM IODIDE)	
14.3 Class	9	
14.4 Packing group	III	
14.5 Environmentally hazardous	yes	
14.6 Special precautions for	yes	
user		
EmS	F-A S-F	
Packages smaller than or equal to	o 5 kg / L , not dangerous goods of Class 9	
14.7 Transport in bulk according t	to Annex II of MARPOL 73/78 and the IBC Code	
1 0		

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

EU regulations	
Major Accident Hazard	SEVESO III
Legislation	ENVIRONMENTAL HAZARDS
	E1
	Quantity 1: 100 t
	Quantity 2: 200 t

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Catalogue No.	106523			
Product name	me Sodium iodide for analysis EMSURE® AC			
Occupational restrictions	Take note of Dir 94/3	3/EC on the protection of young people at		
	work. Observe work r	work. Observe work restrictions regarding maternity protection in		
		ccordance to Dir 92/85/EEC or stricter national regulations where		
	applicable.			
Regulation (EC) No 1005/20	09 on substances that	not regulated		
deplete the ozone layer		-		
Regulation (EC) No 850/200	•	not regulated		
Parliament and of the Counc				
persistent organic pollutants	and amending			
Directive 79/117/EEC				
Substances of very high con	cern (SVHC)	This product does not contain substances		
		of very high concern according to		
		Regulation (EC) No 1907/2006 (REACH),		
		Article 57 above the respective regulatory		
		concentration limit of ≥ 0.1 % (w/w).		
National legislation				
	10 - 13			

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.	
H372	Causes damage to organs through prolonged or repeated
	exposure if swallowed.
H400	Very toxic to aquatic life.

Training advice

Provide adequate information, instruction and training for operators.

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Signal word Danger

Hazard statements

H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed. H400 Very toxic to aquatic life.

Precautionary statements
Prevention
P273 Avoid release to the environment.
Response
P314 Get medical advice/ attention if you feel unwell.

Contains: sodium iodide

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.