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Sodium iodide ≥99 %, Ph. Eur.

article number: **8783** Version: **GHS 3.0 en** Replaces version of: 2022-01-14 Version: (GHS 2)

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

### 1.1 Product identifier

Identification of the substance

Article number CAS number **Sodium iodide** ≥99 %, Ph. Eur.

8783

7681-82-5

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

### e-mail (competent person):

### sicherheit@carlroth.de

### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2A	Eye Irrit. 2A	H319
3.9	Specific target organ toxicity - repeated exposure	1	STOT RE 1	H372

For full text of abbreviations: see SECTION 16

date of compilation: 2017-01-26 Revision: 2024-03-01

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### **The most important adverse physicochemical, human health and environmental effects** Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS07, GHS08



### **Hazard statements**

H315	Causes skin irritation
H319	Causes serious eye irritation
H372	Causes damage to organs (thyroid gland) through prolonged or repeated ex-
	posure (if swallowed)

### **Precautionary statements**

### **Precautionary statements - prevention**

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves

### **Precautionary statements - response**

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing
P314	Get medical advice/attention if you feel unwell
P337+P313	If eye irritation persists: Get medical advice/attention

#### **Precautionary statements - disposal**

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	Sodium iodide
Molecular formula	INa
Molar mass	149.9 <sup>g</sup> / <sub>mol</sub>
CAS No	7681-82-5

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### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



### **General notes**

Take off contaminated clothing.

### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

#### **Following ingestion**

Rinse mouth. Call a doctor if you feel unwell.

# **4.2 Most important symptoms and effects, both acute and delayed** Irritation

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

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

### Unsuitable extinguishing media

water jet

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

Non-combustible.

### Hazardous combustion products

Hydrogen iodide (HI)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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

### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 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. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 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

Avoid dust formation.

### Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Store in a dry place. Hygroscopic solid.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Protect against external exposure, such as

humidity, light, contact with air/oxygen

#### Consideration of other advice:

#### **Ventilation requirements**

Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

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#### 7.3 Specific end use(s)

No information available.

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

#### 8.1 **Control parameters**

### National limit values

### **Occupational exposure limit values (Workplace Exposure Limits)**

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
AU	nuisance dusts		WES	10			i	WES

Notation

Ceiling value is a limit value above which exposure should not occur Inhalable fraction Ceiling-C

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

TWA

minute period (unless otherwise specified) 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	0.822 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects	
DNEL	0.233 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	

### **Environmental values**

Relevant PNECs and other threshold levels						
End- point	Threshold level	Organism	Environmental com- partment	Exposure time		
PNEC	0.28 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)		
PNEC	28 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)		
PNEC	1.38 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)		
PNEC	0.138 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)		
PNEC	0.111 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)		

#### 8.2 **Exposure controls**

### Individual protection measures (personal protective equipment)

### Eye/face protection



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Use safety goggle with side protection.

### Skin protection



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

#### • material thickness

>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.

### **Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

### **Environmental exposure controls**

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
Form	powder, crystalline
Colour	white
Odour	odourless
Melting point/freezing point	651 °C at 1,013 hPa (ECHA)
Boiling point or initial boiling point and boiling range	1,304 °C at 1,013 hPa (ECHA)
Flammability	non-combustible

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	Lower and upper explosion limit	not determined
	Flash point	not applicable
	Auto-ignition temperature	not determined
	Decomposition temperature	not relevant
	pH (value)	6 – 9 (in aqueous solution: 50 <sup>g</sup> / <sub>l</sub> , 20 °C)
	Kinematic viscosity	not relevant
	Solubility(ies)	
	Water solubility	165 <sup>g</sup> / <sub>l</sub> at 25 °C (ECHA)
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	not relevant (inorganic)
	Vapour pressure	1.333 hPa at 767 °C
	Density and/or relative density	
	Density	3.5 <sup>g</sup> / <sub>cm³</sub> at 25 °C (ECHA)
	Relative vapour density	Information on this property is not available.
	Bulk density	1,500 – 2,000 <sup>kg</sup> / <sub>m³</sub>
	Particle characteristics	No data available.
	Other safety parameters	
	Oxidising properties	none
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

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

Moisture-sensitive. Hygroscopic solid.

### **10.3** Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Alkali metals, Ammonia (NH3), Halogenated hydrocarbons, Hydrogen peroxide,

=> Explosive properties



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### 10.4 Conditions to avoid

Humidity. Direct light irradiation. UV-radiation/sunlight. Contact with air/oxygen.

### **10.5 Incompatible materials** There is no additional information.

**10.6 Hazardous decomposition products** 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.

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	4,340 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### **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 (thyroid gland) through prolonged or repeated exposure (if swallowed).

Hazard category	Target organ	Exposure route
1	thyroid gland	if swallowed

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

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### If swallowed

Data are not available.

### • If in eyes

Causes serious eye irritation

### • If inhaled

Data are not available.

### • If on skin

causes skin irritation

### • Other information

Other adverse effects: Cardiovascular system

### 11.2 Endocrine disrupting properties

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

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

### 12.1 Toxicity

Very toxic to aquatic life.

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
EC50	1.27 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	48 h
LC50	>100 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	96 h

### 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** Data are not available.

### 12.6 Endocrine disrupting properties

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

### 12.7 Other adverse effects

Data are not available.



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### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains.

### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

H11 Toxic (Delayed or chronic)

#### 13.3 Remarks

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

#### **SECTION 14: Transport information** 14.1 UN number **UN RTDG** UN 3077 IMDG-Code UN 3077 ICAO-TI UN 3077 14.2 UN proper shipping name **UN RTDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, IMDG-Code SOLID, N.O.S. ICAO-TI Environmentally hazardous substance, solid, n.o.s. Sodium iodide Technical name 14.3 Transport hazard class(es) **UN RTDG** 9 IMDG-Code 9 9 ICAO-TI 14.4 Packing group **UN RTDG** III IMDG-Code III

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### article number: 8783 ICAO-TI III 14.5 Environmental hazards hazardous to the aquatic environment 14.6 Special precautions for user There is no additional information. 14.7 Transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk. 14.8 Information for each of the UN Model Regulations Transport informationNational regulationsAdditional information(UN RTDG) **UN number** 3077 9 Class **Environmental hazards** Yes Hazardous to the aquatic environment Packing group III Danger label(s) 9 Fish and tree **Special provisions (SP)** 274, 331, 335, 375 UN RTDG E1 UN RTDG **Excepted quantities (EQ)** 5 kg Limited quantities (LQ) **UN RTDG Emergency Action Code** 2Z International Maritime Dangerous Goods Code (IMDG) - Additional information Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. UN3077, ENVIRONMENTALLY HAZARDOUS SUB-Particulars in the shipper's declaration STANCE, SOLID, N.O.S., (Sodium iodide), 9, III Marine pollutant Yes (hazardous to the aquatic environment), (Sodium iodide) Danger label(s) 9, "Fish and tree" Special provisions (SP) 274, 335, 966, 967, 969 Excepted quantities (EQ) E1 Limited quantities (LQ) 5 kg EmS F-A, S-F Stowage category А

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International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information				
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.			
Particulars in the shipper's declaration	UN3077, Environmentally hazardous substance, solid, n.o.s., (Sodium iodide), 9, III			
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)			
Danger label(s)	9, "Fish and tree"			
Special provisions (SP)	A97, A158, A179, A197, A215			
Excepted quantities (EQ)	E1			
Limited quantities (LQ)	30 kg			

### **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

### National regulations(Australia)

**Australian Inventory of Chemical Substances(AICS)** Substance is listed.

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### **National inventories**

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

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LegendAIICAustralian Inventory of Industrial ChemicalsCICRChemical Inventory and Control RegulationCSCL-ENCSList of Existing and New Chemical Substances (CSCL-ENCS)DSLDomestic Substances List (DSL)ECSIEC Substance Inventory (EINECS, ELINCS, NLP)IECSCInventory of Existing Chemical SubstancesINSQNational Inventory of Chemical SubstancesKECIKorea Existing Chemicals InventoryNZIOCNew Zealand Inventory of ChemicalsPICCSPhilippine Inventory of Chemicals and Chemical Substances (PICCS)REACH Reg.REACH registered substancesTCSITaiwan Chemical Substance InventoryTSCAToxic Substance Control Act	3
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### 15.2 Chemical Safety Assessment

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

### **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8		Emergency Action Code: 2Z	yes
15.1		National inventories: change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
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
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air

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Abbr.	Descriptions of used abbreviations
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
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
РВТ	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
STEL	Short-term exposure limit
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. 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
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H372	Causes damage to organs (thyroid gland) through prolonged or repeated exposure (if swallowed).

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.