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	according to Reg	gulation (EC) No 1907/2006 (REACH) as amended			
		Sodium iodide			
	ion date 21st Septembe				
Revis	ion date 20th October 2	2022 Version 2.0			
SECT	ION 1: Identification of the substand	e/mixture and of the company/undertaking			
1.1.	Product identifier	Sodium iodide			
	Substance / mixture	substance			
	Chemical name	Sodium iodide			
	CAS number	7681-82-5			
	EC (EINECS) number	231-679-3			
	Registration number	01-2119966138-29-0000			
	Other substance name				
	Sodium iodide				
1.2.	Relevant identified uses of the sub	ostance or mixture and uses advised against			
	Substance's intended use				
	Chemical production, analytical chemis	stry, laboratory synthesis, industrial applications.			
	Substance uses advised against				
		ys other then those referred in Section 1.			
1.3.	Details of the supplier of the safety data sheet				
	Supplier				
	Name or trade name	Ing. Petr Švec - PENTA s.r.o.			
	Address	Radiová 1122/1, Praha 10, 102 00			
		Czech Republic			
	Identification number (CRN)	02096013			
	VAT Reg No	CZ02096013			
	VAT REY NO	C202050015			
	Phone	+420 226 060 681			
	Phone E-mail	+420 226 060 681 info@pentachemicals.eu			
	Phone E-mail Web address	+420 226 060 681 info@pentachemicals.eu www.pentachemicals.eu			
	Phone E-mail	+420 226 060 681 info@pentachemicals.eu www.pentachemicals.eu the safety data sheet			
	Phone E-mail Web address	+420 226 060 681 info@pentachemicals.eu www.pentachemicals.eu the safety data sheet Ing. Petr Švec - PENTA s.r.o.			
	Phone E-mail Web address Competent person responsible for Name E-mail	+420 226 060 681 info@pentachemicals.eu www.pentachemicals.eu the safety data sheet			
1.4.	Phone E-mail Web address Competent person responsible for Name	+420 226 060 681 info@pentachemicals.eu www.pentachemicals.eu the safety data sheet Ing. Petr Švec - PENTA s.r.o.			

2.1. Classification of the substance or mixture Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 (thyroid gland) (ingestion) Aquatic Acute 1, H400

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation. Causes damage to thyroid gland through prolonged or repeated exposure if swallowed. Very toxic to aquatic life.



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2.2. Label elements



Signal word

Danger

Dangerous substance

Sodium iodide (EC: 231-679-3; CAS: 7681-82-5)

Hazard statements	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H372	Causes damage to thyroid gland through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
Precautionary statements	
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
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.

2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component			
CAS: 7681-82-5 EC: 231-679-3 Registration number: 01-2119966138-29- 0000	Sodium iodide		Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 (thyroid gland) (ingestion) Aquatic Chronic 1, H410 (M=1)	

Full text of all classifications and hazard statements is given in the section 16.



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SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled

Cough, headache. **If on skin** Causes skin irritation. **If in eyes** Causes serious eye irritation. **If swallowed** Irritation, nausea. **Ladiantian of any immedia**

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

Symptomatic treatment

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. **Unsuitable extinguishing media** Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.



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Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not inhale dust. Prevent contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Specific end use(s)

not available

7.3.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

8.2. **Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product (butyl rubber, Viton). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection not available

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	without fragrance
Melting point/freezing point	651 °C
Boiling point or initial boiling point and boiling range	1304 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	6-9 (undiluted)



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Sodium iodide Creation date 21st September 2019 Revision date 20th October 2022 Version 2.0 Kinematic viscosity data not available Solubility in water 1800 g/l (25°C) Partition coefficient n-octanol/water (log value) data not available Vapour pressure 1,3 hPa at 20 °C Density and/or relative density data not available 9.2. Other information not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is non-flammable.

- 10.2. Chemical stability
 - The product is stable under normal conditions.
- **10.3.** Possibility of hazardous reactions Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the substance.

Acute toxicity

Based on available data the classification criteria are not met.

Sodium iodide

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	4340 mg/kg		Rat	
Skin connection (invitation					

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

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



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Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Very toxic to aquatic life. Sodium iodide

Parameter	Value	Exposure time	Species	Environment
LC50	2800 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC50	0.17 mg/l	48 hour	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

not available

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100. The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 3077



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14.2.	UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTAN	CE, SOLID, N.O.S. (SODIUM IO	DIDE)			
14.3. Transport hazard class(es)						
	9 Miscellaneous dangerous substances a	nd articles				
14.4.	14.4. Packing group					
	III - substances presenting low danger					
14.5.	Environmental hazards					
116	not relevant					
14.6.	Special precautions for user Reference in the Sections 4 to 8.					
14.7.		TMO instruments				
<u> </u>	not relevant					
	Additional information					
	Hazard identification No.	90				
	UN number	3077				
	Classification code	M7				
	Safety signs	9+hazardous for the env	vironment			
			2			
	Air transport - ICAO/IATA					
	Packaging instructions passenger	956				
	Cargo packaging instructions	956				
	Marine transport - IMDG					
	EmS (emergency plan)	F-A, S-F				

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other info A list of standard	rmation I risk phrases used in the safety data sheet
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H372	Causes damage to thyroid gland through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.



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	afe handling used in the safety data sheet						
P314	Get medical advice/attention if you feel unwell.						
P305+P351+P33	lenses, if present and easy to do. Continue rinsing.						
P273	Avoid release to the environment.						
P270	Do not eat, drink or smoke when using this product.						
Other importar	t information about human health protection						
	t not be - unless specifically approved by the manufacturer/importer - used for purposes other than 1. The user is responsible for adherence to all related health protection regulations.						
Key to abbrevi	tions and acronyms used in the safety data sheet						
ADR	European agreement concerning the international carriage of dangerous goods by road						
BCF	Bioconcentration Factor						
CAS	Chemical Abstracts Service						
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures						
EC50	Concentration of a substance when it is affected 50% of the population						
EINECS	European Inventory of Existing Commercial Chemical Substances						
EmS	Emergency plan						
ES	Identification code for each substance listed in EINECS						
EU	European Union						
EuPCS	•						
	European Product Categorisation System						
IATA	International Air Transport Association						
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals						
ICAO	International Civil Aviation Organization						
IMDG	International Maritime Dangerous Goods						
INCI	International Nomenclature of Cosmetic Ingredients						
ISO	International Organization for Standardization						
IUPAC	International Union of Pure and Applied Chemistry						
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population						
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population						
log Kow	Octanol-water partition coefficient						
MARPOL	International Convention for the Prevention of Pollution from Ships						
OEL	Occupational Exposure Limits						
PBT	Persistent, Bioaccumulative and Toxic						
ppm	Parts per million						
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals						
RID	Agreement on the transport of dangerous goods by rail						
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations						
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials						
VOC	Volatile organic compounds						
vPvB	Very Persistent and very Bioaccumulative						
Aquatic Acute	Hazardous to the aquatic environment						
Aquatic Chronic	Hazardous to the aquatic environment (chronic)						
Eye Irrit.	Eye irritation						
, Skin Irrit.	, Skin irritation						
STOT RE	Specific target organ toxicity - repeated exposure						



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Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 21 September 2019. Changes were made in sections 1,2,4,5,6,7,8,9,11,12,13,14,15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.