sheet:

e-mail (competent person):

1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1

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	2	Eye Irrit. 2	H319
3.8R	Specific target organ toxicity - single exposure (respirat- ory tract irritation)	3	STOT SE 3	H335

Safety data sheet Safety data sheet acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.

article number: 9839 Version: 5.0 en Replaces version of: 2022-06-28 Version: (4)

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

Product identifier 1.1

Identification of the substance	Zinc iodide ≥99 %
Article number	9839
EC number	233-396-0
CAS number	10139-47-6

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

Relevant identified uses:

Laboratory chemical Laboratory and analytical use

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

Details of the supplier of the safety data sheet 1.3

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

Uses advised against:

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

sicherheit@carlroth.de



date of compilation: 2016-05-31

Revision: 2024-03-04

%, p.a.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.



article number: 9839

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
4.1A	Hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	Hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

Signal word Warning

Pictograms

GHS07, GHS09



Hazard statements

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P273Avoid release to the environmentP280Wear protective gloves/eye protection

Precautionary statements - response

P302+P352IF ON SKIN: Wash with plenty of waterP305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing

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 $\ge 0,1\%$.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.

article number: 9839

3.1

SECTION 3: Composition/information on ingredients

Substances	
Name of substance	Zinc iodide
Molecular formula	ZnI₂
Molar mass	319,2 ^g / _{mol}
CAS No	10139-47-6
EC No	233-396-0

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

Nausea, Irritation, Vomiting, Cough, Dyspnoea

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



acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.

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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. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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

Provision of sufficient ventilation. Avoid dust formation.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Measures to protect the environment

Avoid release to the environment.

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. Keep container tightly closed. Direct light irradiation. Hygroscopic.



acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.

article number: 9839

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

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/ m ³]	Nota- tion	Source
GB	dust		WEL	10			i	EH40/2005
GB	dust		WEL	4			r	EH40/2005

Notation

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

Inhalable fraction Respirable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute period (unless otherwise specified)

TWA 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)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection





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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). P2 (filters at least 94 % 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 - light yellow
Odour	odourless
Melting point/freezing point	446 °C
Boiling point or initial boiling point and boiling range	625 °C
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant

acc. to Regulation (EC) No. 1907/2006 (REACH)

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	pH (value)	5,6 (in aqueous solution: 50 ^g / _l , 20 °C)
	Kinematic viscosity	not relevant
	Solubility(ies)	
	Water solubility	~4.500 ^g / _l at 20 °C
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	not relevant (inorganic)
	Vapour pressure	not determined
	Density and/or relative density	
	Density	4,74 ^g / _{cm³} at 20 °C
	Relative vapour density	Information on this property is not available.
	Bulk density	~1.800 ^{kg} / _{m³}
	Deutiele aboue stavistice	
	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

May cause decomposition by long-term light influence. Hygroscopic solid.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Peroxides, Potassium, Strong alkali

10.4 Conditions to avoid

Direct light irradiation. Protect from moisture. Oxygen.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

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

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

Data are not available.

• If in eyes

Causes serious eye irritation

• If inhaled

Irritation to respiratory tract, cough, Dyspnoea

• If on skin

causes skin irritation

Other information

none

11.2 Endocrine disrupting properties

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

11.3 Information on other hazards

There is no additional information.



acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.

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SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure time
LC50	1 ^{mg} /l	(top) predators		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 $\ge 0,1\%$.

12.7 Other adverse effects Data are not available.

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. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

- **HP 4** irritant skin irritation and eye damage
- HP 5 specific target organ toxicity (STOT)/aspiration toxicity
- HP 14 ecotoxic



acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.

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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

JLC	Tion 14. mansport information		
14.1	UN number or ID number		
	ADRRID	UN 3077	
	IMDG-Code	UN 3077	
	ICAO-TI	UN 3077	
14.2	UN proper shipping name		
	ADRRID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
	IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
	ICAO-TI	Environmentally hazardous substance, solid, n.o.s.	
	Technical name	Zinc iodide	
14.3	Transport hazard class(es)		
	ADRRID	9	
	IMDG-Code	9	
	ICAO-TI	9	
14.4	Packing group		
	ADRRID	III	
	IMDG-Code	III	
	ICAO-TI	III	
14.5	Environmental hazards	hazardous to the aquatic environment	
14.6	Special precautions for user		

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime 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

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information			
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
Particulars in the transport document	UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (Zinc iodide), 9, III, (-)		
Classification code	M7		
Danger label(s)	9, "Fish and tree"		



Safety data sheet Safety data sheet acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.



article number: 9839

Image: Second		
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Hazard identification No90International Maritime Dangerous Goods Code (IMDG) - Additional informationProper shipping nameENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.Particulars in the shipper's declarationUN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, STANCE, SOLID, N.O.S., (Zinc iodide), 9, IIIMarine pollutantyes (hazardous to the aquatic environment), (Zinc iodide) 9, "Fish and tree"Danger label(s)9, "Fish and tree"Special provisions (SP)274, 335, 966, 967, 969Excepted quantities (EQ)E1Limited quantities (LQ)5 kgEmSF-A, S-F	Limited quantities (LQ)	5 kg
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Proper shipping nameENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.Particulars in the shipper's declarationUN3077, ENVIRONMENTALLY HAZARDOUS SUB STANCE, SOLID, N.O.S., (Zinc iodide), 9, IIIMarine pollutantyes (hazardous to the aquatic environment), (Zinc iodide)Danger label(s)9, "Fish and tree"Image: pollutant274, 335, 966, 967, 969Excepted quantities (EQ)E1Limited quantities (LQ)5 kgEmSF-A, S-F	Hazard identification No	90
SolidSolidN.O.S.Particulars in the shipper's declarationUN3077, ENVIRONMENTALLY HAZARDOUS SUE STANCE, SOLID, N.O.S., (Zinc iodide), 9, IIIMarine pollutantyes (hazardous to the aquatic environment), (Zinc iodide)Danger label(s)9, "Fish and tree"Image: Special provisions (SP)274, 335, 966, 967, 969Excepted quantities (EQ)E1Limited quantities (LQ)5 kgEmSF-A, S-F	International Maritime Dangerous Goods (Code (IMDG) - Additional information
Marine pollutantSTANCE, SOLID, N.O.S., (Zinc iodide), 9, IIIDanger label(s)9, "Fish and tree"Image: Special provisions (SP)274, 335, 966, 967, 969Excepted quantities (EQ)E1Limited quantities (LQ)5 kgEmSF-A, S-F	Proper shipping name	
Danger label(s)9, "Fish and tree"Image: special provisions (SP)274, 335, 966, 967, 969Excepted quantities (EQ)E1Limited quantities (LQ)5 kgEmSF-A, S-F	Particulars in the shipper's declaration	UN3077, ENVIRONMENTALLY HAZARDOUS SUE STANCE, SOLID, N.O.S., (Zinc iodide), 9, III
Image: Special provisions (SP)274, 335, 966, 967, 969Excepted quantities (EQ)E1Limited quantities (LQ)5 kgEmSF-A, S-F	Marine pollutant	YES (hazardous to the aquatic environment), (Zinc iodide)
Excepted quantities (EQ)E1Limited quantities (LQ)5 kgEmSF-A, S-F	Danger label(s)	9, "Fish and tree"
Excepted quantities (EQ)E1Limited quantities (LQ)5 kgEmSF-A, S-F		
Limited quantities (LQ)5 kgEmSF-A, S-F	Special provisions (SP)	274, 335, 966, 967, 969
EmS F-A, S-F	Excepted quantities (EQ)	E1
	Limited quantities (LQ)	5 kg
Stowage category A	EmS	F-A, S-F
	Stowage category	A

acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.



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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., (Zinc iodide), 9, III	
	Environmental hazards	Yes (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	
C	TION 15. Degulatory information		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)				
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements		Notes
E1	environmental hazards (hazardous to the aquatic en- vironment, cat. 1)	100	200	56)

Notation

56) Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Deco-Paint Directive

VOC content	0 %
VOC content	0 g/l

Industrial Emissions Directive (IED)

VOC content	0 %
VOC content	0 g/l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

acc. to Regulation (EC) No. 1907/2006 (REACH)

Zinc iodide ≥99 %, p.a.

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Nater Framework Directive (WFD)				
List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Zinc iodide	Metals and their compounds		a)	

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

not listed

Restrictions according to GB REACH, Annex 17

not 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	NDSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
NZ	NZIoC	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

AIIC Australian Inventory of Industrial Chemicals CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS) acc. to Regulation (EC) No. 1907/2006 (REACH)

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Legend	
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC KECI	Inventory of Existing Chemical Substances Produced or Imported in China Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NDSL	Non-domestic Substances List (NDSL)
NZIOC	New Zealand Inventory of Chemicals
TCSI TSCA	Taiwan Chemical Substance Inventory Toxic Substance Control Act

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
15.1	VOC content: 0 % 0 ^g / _l	VOC content: 0 %	yes
15.1		VOC content: 0 ^g / _l	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)	
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)	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)	
ED	Endocrine disruptor	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions	
ΙΑΤΑ	International Air Transport Association	

acc. to Regulation (EC) No. 1907/2006 (REACH)



Zinc iodide ≥99 %, p.a.

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Abbr.	Descriptions of used abbreviations	
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	
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	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)	
STEL	Short-term exposure limit	
TWA	Time-weighted average	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and very Bioaccumulative	
WEL	Workplace exposure limit	

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). 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.	
H335	May cause respiratory irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

Disclaimer

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