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Selenium(IV) oxide ≥99,5 %, p.a.

article number: **1L0N** Version: **GHS 2.0 en** Replaces version of: 2021-06-17 Version: (GHS 1)

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

### 1.1 Product identifier

Identification of the substance

Article number

CAS number

**Selenium(IV) oxide** ≥99,5 %, p.a.

1L0N

7446-08-4

### 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
3.10	Acute toxicity (oral)	3	Acute Tox. 3	H301
3.1I	Acute toxicity (inhal.)	3	Acute Tox. 3	H331
3.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16

date of compilation: 2021-06-17 Revision: 2024-03-01

acc. to Safe Work Australia - Code of Practice

### Selenium(IV) oxide ≥99,5 %, p.a.

### article number: **1L0N**



### **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

GHS06, GHS08



### **Hazard statements**

H301+H331	Toxic if swallowed or if inhaled
H373	May cause damage to organs through prolonged or repeated exposure

### **Precautionary statements**

### **Precautionary statements - prevention**

P260 Do not breathe dust/fume/gas/mist/vapours/spray

### **Precautionary statements - response**

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfort- able for breathing
P311	Call a POISON CENTER or doctor/physician
P330	Rinse mouth

### **Precautionary statements - storage**

P403+P233 Store in a well-ventilated place. Keep container tightly closed

### **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	Selenium(IV) oxide
Molecular formula	SeO <sub>2</sub>
Molar mass	111 <sup>g</sup> / <sub>mol</sub>
CAS No	7446-08-4

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### Selenium(IV) oxide ≥99,5 %, p.a.

article number: 1L0N

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

### 4.1 Description of first aid measures



### **General notes**

Self-protection of the first aider.

### **Following inhalation**

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

### **Following ingestion**

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** Cough, Nausea, Irritant effects, Vomiting, 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

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

Non-combustible.

### 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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### Selenium(IV) oxide ≥99,5 %, p.a.

article number: **1L0N** 

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

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



### For non-emergency personnel

Use personal protective equipment as required. 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. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

### 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. Ventilate affected area.

### 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

Use extractor hood (laboratory). Avoid dust formation. Clear contaminated areas thoroughly.

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

Removal of dust deposits.

### Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

### 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.

### Consideration of other advice:

Store locked up.

#### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

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### Selenium(IV) oxide ≥99,5 %, p.a.

article number: 1L0N

#### 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 <sup>3</sup> ]	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** Threshold Endpoint **Protection goal**, **Used in Exposure time** level route of exposure 0.07 mg/m<sup>3</sup> human, inhalatory DNEL worker (industry) chronic - systemic effects DNEL 9.8 mg/kg bw/ human, dermal worker (industry) chronic - systemic effects day

### **Environmental values**

Relevant PNECs and other threshold levels								
End- point	Threshold level	Organism	Environmental com- partment	Exposure time				
PNEC	3.74 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)				
PNEC	2.8 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)				
PNEC	2.1 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)				
PNEC	11.48 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)				
PNEC	8.68 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)				
PNEC	0.06 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)				

#### 8.2 **Exposure controls**

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### Selenium(IV) oxide ≥99,5 %, p.a.

article number: **1L0N** 

### Individual protection measures (personal protective equipment)

### **Eye/face protection**

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). P3 (filters at least 99,95 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.





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### Selenium(IV) oxide ≥99,5 %, p.a.

article number: **1L0N** 

# **SECTION 9: Physical and chemical properties**

9.1	Information on basic physical and chemical properties					
	Physical state	solid				
	Form	powder, crystalline				
	Colour	white				
	Odour	characteristic				
	Melting point/freezing point	340 °C at 1,015 hPa (ECHA)				
	Boiling point or initial boiling point and boiling range	not determined				
	Flammability	non-combustible				
	Lower and upper explosion limit	not determined				
	Flash point	not applicable				
	Auto-ignition temperature	≥210 – ≤340 °C at 1,013 hPa (ECHA)				
	Decomposition temperature	not relevant				
	pH (value)	2 (in aqueous solution: 10 <sup>g</sup> / <sub>l</sub> , 20 °C)				
	Kinematic viscosity	not relevant				
	Solubility(ies)					
	Water solubility	1,353 <sup>g</sup> / <sub>l</sub> at 19 °C (ECHA)				
	Partition coefficient					
	Partition coefficient n-octanol/water (log value):	-0.77 (calculated value)				
	Vapour pressure	<0.001 mmHg at 20 °C				
	Density and/or relative density					
	Density	3.95 <sup>g</sup> / <sub>cm³</sub> (ECHA)				
	Relative vapour density	Information on this property is not available.				
	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.				



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### Selenium(IV) oxide ≥99,5 %, p.a.

article number: **1L0N** 

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### **10.2** Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Reducing agents, Strong alkali

- **10.4 Conditions to avoid** Humidity.
- 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

Toxic if swallowed. Toxic if inhaled.

Acute toxicity							
Exposure route	Endpoint	Value	Species	Method	Source		
oral	LD50	68.1 <sup>mg</sup> / <sub>kg</sub>	rat		TOXNET		

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### 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).

acc. to Safe Work Australia - Code of Practice

### Selenium(IV) oxide ≥99,5 %, p.a.

® Foth

### article number: 1L0N

### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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

### If swallowed

vomiting, nausea

### • If in eyes

slightly irritant but not relevant for classification

### • If inhaled

vertigo, cough, headache, poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness

### If on skin

slightly irritant but not relevant for classification

#### • Other information

Other adverse effects: Liver and kidney damage, Lung, Gastro-intestinal tract, Pancreas

### 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 with long lasting effects.

Aquatic toxicity (acute)							
Endpoint	Value	Species	Source	Exposure time			
LC50	2,060 <sup>µg</sup> / <sub>l</sub>	fish	ECHA	96 h			
ErC50	44,240 <sup>µg</sup> / <sub>l</sub>	algae	ECHA	72 h			

### Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
EC50	180 <sup>mg</sup> /l	microorganisms	ECHA	3 h

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

	n-octanol/water (log KOW)	-0.77 (Calculated value)	
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### Selenium(IV) oxide ≥99,5 %, p.a.

article number: 1L0N

### 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.

### 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

H6.1 Poisonous (Acute)

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 3283
	IMDG-Code	UN 3283
	ICAO-TI	UN 3283
14.2	UN proper shipping name	
	UN RTDG	SELENIUM COMPOUND, SOLID, N.O.S.
	IMDG-Code	SELENIUM COMPOUND, SOLID, N.O.S.
	ICAO-TI	Selenium compound, solid, n.o.s.
	Technical name	Selenium(IV) oxide

# Safety data sheet Safety data sheet acc. to Safe Work Australia - Code of Practice

### Selenium(IV) oxide ≥99,5 %, p.a.

article number: **1L0N** 



14.3	Transport hazard class(es)		
	UN RTDG	6.1	
	IMDG-Code	6.1	
	ICAO-TI	6.1	
14.4	Packing group		
	UN RTDG	III	
	IMDG-Code	III	
	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 instrument	S	
	The cargo is not intended to be carried in bulk.		
14.8	3 Information for each of the UN Model Regulations		
	Transport informationNational regulationsAdditional information(UN RTDG)		
	UN number	3283	
	Class	6.1	
	Environmental hazards	Yes Hazardous to the aquatic environment	
	Packing group	III	
	Danger label(s)	6.1 Fish and tree	
	Special provisions (SP)	223, 274 UN RTDG	
	Excepted quantities (EQ)	E1 UN RTDG	
	Limited quantities (LQ)	5 kg UN RTDG	
	Emergency Action Code	2X	
	International Maritime Dangerous Goods Code	(IMDG) - Additional information	
	Proper shipping name	SELENIUM COMPOUND, SOLID, N.O.S.	
	Particulars in the shipper's declaration	UN3283, SELENIUM COMPOUND, SOLID, N.O.S., (Selenium(IV) oxide), 6.1, III, MARINE POLLUTANT	
	Marine pollutant	<b>Yes</b> (hazardous to the aquatic environment)	
	Danger label(s)	6.1, "Fish and tree"	

acc. to Safe Work Australia - Code of Practice

### Selenium(IV) oxide ≥99,5 %, p.a.



article number: <b>1L0N</b>		
Special provisions (SP)	223, 274	
Excepted quantities (EQ)	E1	
Limited quantities (LQ)	5 kg	
EmS	F-A, S-A	
Stowage category	A	
International Civil Aviation Organization (ICA	AO-IATA/DGR) - Additional information	
Proper shipping name	Selenium compound, solid, n.o.s.	
Particulars in the shipper's declaration	UN3283, Selenium compound, solid, n.o.s., (Sel- enium(IV) oxide), 6.1, III	
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)	
Danger label(s)	6.1	
Special provisions (SP)	A3, A5	
Excepted quantities (EQ)	E1	
Limited quantities (LQ)	10 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

acc. to Safe Work Australia - Code of Practice

### Selenium(IV) oxide ≥99,5 %, p.a.

### article number: 1L0N



Country	Inventory	Status
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

### Legend

Australian Inventory of Industrial Chemicals
Chemical Inventory and Control Regulation
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Korea Existing Chemicals Inventory
National Chemical Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH registered substances
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
14.8		Emergency Action Code: 2X	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	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

acc. to Safe Work Australia - Code of Practice



### Selenium(IV) oxide ≥99,5 %, p.a.

### article number: **1L0N**

Abbr.	Descriptions of used abbreviations
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
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
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
PBT	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
H301	Toxic if swallowed.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

acc. to Safe Work Australia - Code of Practice

### Selenium(IV) oxide ≥99,5 %, p.a.

### article number: **1L0N**

### Disclaimer

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



