## **SECTION 2: Hazards identification**

#### 21 Classification of the substance or mixture

#### **Classification acc. to GHS**

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.4S	Skin sensitisation	1B	Skin Sens. 1B	H317
3.7	Reproductive toxicity	1B	Repr. 1B	H360D

acc. to Safe Work Australia - Code of Practice

#### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)

article number: 5745 Version: GHS 4.0 en Replaces version of: 2022-09-12 Version: (GHS 3)

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

5745

7446-07-3

Tellurium dioxide

**Product identifier** 1.1

Identification of the substance

- Article number
- CAS number
- Alternative name(s)

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

sicherheit@carlroth.de

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

Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)

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

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):

#### 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	



date of compilation: 2017-06-22 Revision: 2024-03-02

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### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



#### article number: 5745

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.7L	Effects on or via lactation	L	Lact.	H362

For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

#### Labelling

Signal word Danger

#### **Pictograms**

GHS07, GHS08



#### **Hazard statements**

H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H360D	May damage the unborn child
H362	May cause harm to breast-fed children

#### **Precautionary statements**

#### Precautionary statements - prevention

P260	Do not breathe dusts or mists
P263	Avoid contact during pregnancy/while nursing
P280	Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary statements - response**

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P312	Call a POISON CENTER or doctor/physician if you feel unwell

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

P501 Dispose of contents/container to industrial combustion plant

For professional users only

#### 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  $\ge 0,1\%$ .

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#### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)

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article number: 5745

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance	Tellurium(IV) oxide
Molecular formula	TeO <sub>2</sub>
Molar mass	159.6 <sup>g</sup> / <sub>mol</sub>
CAS No	7446-07-3

### **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. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician.

#### Following eye contact

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

#### Following ingestion

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Malaise, Allergic reactions

#### 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, dry extinguishing powder, ABC-powder

### Unsuitable extinguishing media

water jet

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#### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



article number: 5745

### 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.

### **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.

#### 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

Provide adequate ventilation as well as local exhaustion at critical locations. Avoid dust formation. Avoid exposure.

#### 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. Keep container tightly closed.

#### Incompatible substances or mixtures

Observe hints for combined storage.

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#### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



#### article number: 5745

#### **Consideration of other advice:**

#### **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

#### 7.3 Specific end use(s)

No information available.

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

#### **Control parameters** 8.1

#### 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
AU	tellurium compounds		WES	0.1			Те	WES

Notation

Ceiling value is a limit value above which exposure should not occur Inhalable fraction Ceiling-C Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) Calculated as Te (tellurium) 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) STEL Te TWA

#### Human health values

Relevant DNELs and other threshold levels							
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
DNEL	0.58 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects			
DNEL	0.83 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	72.4 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent release		
PNEC	7.24 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)		
PNEC	0.724 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)		
PNEC	3.2 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)		

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#### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



article number: 5745

#### 8.2 Exposure controls

#### 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). P2 (filters at least 94 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

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### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



article number: 5745

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

9.1	Information on basic physical and chemical pro	operties
	Physical state	solid
	Form	powder
	Colour	white
	Odour	odourless
	Melting point/freezing point	733 °C at 1,013 hPa (ECHA)
	Boiling point or initial boiling point and boiling range	1,245 °C at 1,013 hPa (ECHA)
	Flammability	non-combustible
	Lower and upper explosion limit	not determined
	Flash point	not applicable
	Auto-ignition temperature	>400 °C at 1,013 hPa (ECHA)
	Decomposition temperature	not relevant
	pH (value)	3.4 (in aqueous solution: 100 <sup>g</sup> / <sub>l</sub> , 20 °C)
	Kinematic viscosity	not relevant
	Solubility(ies)	
	Water solubility	(practically insoluble)
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	not relevant (inorganic)
	Vapour pressure	not determined
	Density and/or relative density	
	Density	5.9 <sup>g</sup> / <sub>cm³</sub> at 20 °C (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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#### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)

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#### article number: 5745

### **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

Exothermic reaction with: Aluminium, Zinc, Cadmium, Strong acid

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### **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

Harmful if inhaled.

Acute toxicity							
Exposure route	Endpoint	Value	Species	Method	Source		
oral	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA		
inhalation: dust/ mist	LC50	>2.42 <sup>mg</sup> /ı/4h	rat		ECHA		

#### 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

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

May damage the unborn child. May cause harm to breast-fed children.

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#### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



#### article number: 5745

### Specific target organ toxicity - single exposure

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

#### 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

vomiting, nausea, gastrointestinal complaints

#### • If in eyes

essentially non-irritating

#### • If inhaled

Inhalation of dust may cause irritation of the respiratory system

#### • If on skin

May produce an allergic reaction, pruritis, localised redness

#### • Other information

Other adverse effects: Cardiovascular system, Headache

#### 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

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
LC50	>100 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	96 h
EC50	7.24 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	48 h
ErC50	>14.7 <sup>mg</sup> / <sub>l</sub>	algae	ECHA	72 h

#### Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
EC50	320 <sup>mg</sup> /l	microorganisms	ECHA	3 h

#### 12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

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#### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



#### article number: 5745

#### 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.

#### 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. IMDG-Code ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ICAO-TI Environmentally hazardous substance, solid, n.o.s. Technical name Tellurium(IV) oxide Transport hazard class(es) 14.3 **UN RTDG** 9

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

### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



article number: 5745

article	e number: <b>5745</b>		
	IMDG-Code	9	
	ICAO-TI	9	
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 instruments	S	
	The cargo is not intended to be carried in bulk.		
14.8	Information for each of the UN Model Regulation	ons	
	Transport informationNational regulationsAdditional information(UN RTDG)		
	UN number	3077	
	Class	9	
	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	
	Excepted quantities (EQ)	E1 UN RTDG	
	Limited quantities (LQ)	5 kg UN RTDG	
	Emergency Action Code	2Z	
	International Maritime Dangerous Goods Code	(IMDG) - Additional information	
	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
	Particulars in the shipper's declaration	UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (Tellurium(IV) oxide), 9, III	
	Marine pollutant	<b>Yes</b> (hazardous to the aquatic environment), (Tellurium(IV) oxide)	
	Danger label(s)	9, "Fish and tree"	
	Special provisions (SP)	274, 335, 966, 967, 969	

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#### Tel



Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)	
article number: <b>5745</b>	
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-A, S-F
Stowage category	A
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., (Tellurium(IV) oxide), 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

**SECTION 15: Regulatory information** 

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

30 kg

#### National regulations(Australia)

#### Australian Inventory of Chemical Substances(AICS)

Substance is listed.

Limited quantities (LQ)

#### **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

AUAIICsubstance is listedCADSLsubstance is listedCNIECSCsubstance is listedEUECSIsubstance is listedEUREACH Reg.substance is listedJPCSCL-ENCSsubstance is listed	
CN     IECSC     substance is listed       EU     ECSI     substance is listed       EU     REACH Reg.     substance is listed	
EU     ECSI     substance is listed       EU     REACH Reg.     substance is listed	
EU     REACH Reg.   substance is listed	
JP CSCL-ENCS substance is listed	
KR KECI substance is listed	
NZ NZIOC substance is listed	
PH PICCS substance is listed	
TW   TCSI   substance is listed	

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### Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)



#### article number: 5745

Country	Inventory Status		
US	TSCA substance is listed (ACTIVE)		
VN	NCI substance is listed		
Legend AIIC CSCL-ENCS DSL ECSI IECSC KECI NCI NZIOC PICCS REACH Reg. TCSI TSCA	Australian Inventory of Industrial Chemicals 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 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
2.2		Hazard statements: change in the listing (table)	yes
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
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

Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)

acc. to Safe Work Australia - Code of Practice



#### article number: **5745**

Abbr.	Descriptions of used abbreviations
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
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H360D	May damage the unborn child.
H362	May cause harm to breast-fed children.

#### Disclaimer

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