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

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

article number: **5745**Version: **4.0 en**date of compilation: 2017-06-22
Revision: 2024-03-02

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Version: (3)



1.1 Product identifier

Identification of the substance Tellurium(IV) oxide ROTI®METIC 99,999 % (5N)

Article number 5745

 Index No (GB CLP)
 052-002-00-6

 EC number
 231-193-1

 CAS number
 7446-07-3

Alternative name(s) Tellurium dioxide

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

stuffs.

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
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

United Kingdom (en) Page 1 / 17

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

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

article number: 5745



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
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.45	Skin sensitisation	1B	Skin Sens. 1B	H317
3.7	Reproductive toxicity	1B	Repr. 1B	H360Df
3.7L	Effects on or via lactation	L	Lact.	H362
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

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 Danger

Pictograms

GHS07, GHS08, GHS09







Hazard statements

H317 May cause an allergic skin reaction

H332 Harmful if inhaled

H360Df May damage the unborn child. Suspected of damaging fertility

H362 May cause harm to breast-fed children
H411 Toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P202 Do not handle until all safety precautions have been read and understood

P261 Avoid breathing dust

P273 Avoid release to the environment P280 Wear protective gloves/eye protection

Precautionary statements - response

P302+P352 IF ON SKIN: Wash with plenty of water

P308+P313 IF exposed or concerned: Get medical advice/attention

For professional users only

United Kingdom (en) Page 2 / 17

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

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

article number: 5745



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 \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

Name of substance Tellurium(IV) oxide

Molecular formula TeO₂

Molar mass 159,6 ^g/_{mol} CAS No 7446-07-3 EC No 231-193-1

Substance, Specific Conc. Limits, M-factors, ATE

Specific Conc. Limits	M-Factors	ATE	Exposure route
-	-	>2,42 ^{mg} / _l /4h	inhalation: dust/ mist

052-002-00-6

SECTION 4: First aid measures

Index No (GB CLP)

Description of first aid measures 4.1



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

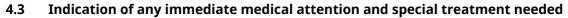
United Kingdom (en) Page 3 / 17



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

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

article number: 5745



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

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. 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

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.

United Kingdom (en) Page 4 / 17



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

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

article number: 5745



SECTION 7: Handling and storage

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.

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.

Incompatible substances or mixtures

Observe hints for combined storage.

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	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
GB	dust		WEL	10			i	EH40/2005
GB	dust		WEL	4			r	EH40/2005
GB	tellurium compounds		WEL	0,1			Te	EH40/2005

Notation

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

Respirable fraction

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) STEL

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)

United Kingdom (en) Page 5 / 17

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

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

article number: 5745



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 ³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	0,83 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects

Environmental values

Relevant	Relevant PNECs and other threshold levels				
End- point	Threshold level	Organism	Environmental compartment	Exposure time	
PNEC	72,4 ^{µg} / _l	aquatic organisms	water	intermittent release	
PNEC	7,24 ^{µg} / _l	aquatic organisms	freshwater	short-term (single instance)	
PNEC	0,724 ^{µg} / _l	aquatic organisms	marine water	short-term (single instance)	
PNEC	3,2 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)	

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 considerable 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

United Kingdom (en) Page 6 / 17

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

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

article number: 5745



>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
Colour white
Odour odourless

Melting point/freezing point 733 °C at 1.013 hPa (ECHA) Boiling point or initial boiling point and boiling 1.245 °C at 1.013 hPa (ECHA)

range

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 g/_I, 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

United Kingdom (en) Page 7 / 17



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

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

article number: 5745

Density and/or relative density

Density $5.9 \, \text{g/}_{\text{cm}^3}$ 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.

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.

_				
Acı	ıte	tos	/ic	itv

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>5.000 ^{mg} / _{kg}	rat		ECHA
inhalation: dust/ mist	LC50	>2,42 ^{mg} / _l /4h	rat		ECHA

United Kingdom (en) Page 8 / 17



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

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

article number: 5745



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. Suspected of damaging fertility. May cause harm to breast-fed children.

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 \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

United Kingdom (en) Page 9 / 17

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

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

article number: 5745



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 ^{mg} / _l	fish	ECHA	96 h
EC50	7,24 ^{mg} / _l	aquatic invertebrates	ECHA	48 h
ErC50	>14,7 ^{mg} / _l	algae	ECHA	72 h

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
EC50	320 ^{mg} / _l	microorganisms	ECHA	3 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.

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.

United Kingdom (en) Page 10 / 17

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

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

article number: 5745



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 10 acute toxicity
HP 10 toxic for reproduction
HP 13 sensitising
HP 14 ecotoxic

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 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 Tellurium(IV) oxide

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

Special precautions for user

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

Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

United Kingdom (en) Page 11 / 17

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

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

article number: 5745



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., (Tellurium(IV) oxide), 9,

III, (-)

Classification code M7

Danger label(s) 9, "Fish and tree"

Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
Transport category (TC) 3
Tunnel restriction code (TRC) Hazard identification No 90

Emergency Action Code 2Z

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

Classification code M7

Danger label(s) 9, "Fish and tree"

Environmental hazards Yes

Hazardous to water

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
Transport category (TC) 3
Hazard identification No 90

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 yes (hazardous to the aquatic environment), (Tellurium(IV)

oxide)

United Kingdom (en) Page 12 / 17

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

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

article number: 5745

Danger label(s) 9, "Fish and tree"



Special provisions (SP) 274, 335, 966, 967, 969

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
EmS F-A, S-F

Stowage category 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 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

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)			
No	Dangerous substance/hazard categories	Qualifying quantity (plication of lower a quirem		Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200	500	57)

Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

Deco-Paint Directive

VOC content	0 %
VOC content	0 ^g / _l

United Kingdom (en) Page 13 / 17



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

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

article number: 5745



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

Water Framework Directive (WFD)

List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Tellurium(IV) oxide	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		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

Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Tellurium(IV) oxide	toxic for reproduction		30

United Kingdom (en) Page 14 / 17

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

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

article number: 5745



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
NZ	NZIoC	substance is listed
PH	PICCS	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
DSL List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China
KECI Korea Existing Chemicals Inventory
NCI National Chemical Inventory
NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory

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 ⁹ / _l	VOC content: 0 %	yes
15.1		VOC content: 0 ⁹ / _l	yes

United Kingdom (en) Page 15 / 17

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

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

article number: 5745



Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) Acute Toxicity Estimate Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) Ceiling value
Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) Ceiling value
Ceiling value
Dangerous Goods Regulations (see IATA/DGR)
Derived No-Effect Level
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
The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
Endocrine disruptor
EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
European Inventory of Existing Commercial Chemical Substances
European List of Notified Chemical Substances
Emergency Schedule
= 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
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
International Air Transport Association
Dangerous Goods Regulations (DGR) for the air transport (IATA)
International Civil Aviation Organization
Technical instructions for the safe transport of dangerous goods by air
International Maritime Dangerous Goods Code
International Maritime Dangerous Goods Code
The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval

United Kingdom (en) Page 16 / 17

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

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

article number: 5745



Abbr.	Descriptions of used abbreviations
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
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
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H362	May cause harm to breast-fed children.
H411	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.

United Kingdom (en) Page 17 / 17