acc. to Safe Work Australia - Code of Practice

Cadmium telluride ROTI®nanoMETIC λ max. 710 ±5 nm

article number: **8260** Version: **GHS 5.0 en** Replaces version of: 2023-10-06 Version: (GHS 4)

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

1.1 Product identifier

Identification of the substance	Cadmium telluride ROTI®nanoMETIC λ max. 710 ±5 nm
Article number	8260
CAS number	1306-25-8
Form	Nanoform

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 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)	4	Acute Tox. 4	H302
3.1D	Acute toxicity (dermal)	4	Acute Tox. 4	H312
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332

For full text of abbreviations: see SECTION 16



date of compilation: 2016-11-14

Revision: 2024-03-04

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2.2 Label elements Labelling **Signal word** Warning **Pictograms** GHS07 **Hazard statements** H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled **Precautionary statements Precautionary statements - prevention** P261 Avoid breathing dust/fume/gas/mist/vapours/spray P280 Wear protective gloves/protective clothing **Precautionary statements - response** P302+P352 IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell P312 P321 Specific treatment (see on this label) **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	Cadmium telluride
Molecular formula	CdTe
Molar mass	240 ^g / _{mol}
CAS No	1306-25-8
Form	Nanoform

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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 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 with water (only if the person is conscious). Call a doctor.

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

Avoid dust formation.

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 in a cool place.

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: 2 - 8 °C

7.3 Specific end use(s)

No information available.

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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/ m³]	Nota- tion	Source
AU	cadmium compounds		WES	0.01			Cd	WES
AU	nuisance dusts		WES	10			i	WES
AU	tellurium compounds		WES	0.1			Te	WES

Notation

Cd

Calculated as Cd (cadmium) 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-minute period (unless otherwise specified)

Te TWA

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)

Human health values

Relevant DNE	Ls and other t	hreshold levels		
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	4 µg/m³	human, inhalatory	worker (industry)	chronic - local effects

Environmental values

Relevant PNECs and other threshold levels							
End- point	Threshold level	Organism	Environmental com- partment	Exposure time			
PNEC	0.19 ^{µg} / _l	aquatic organisms	freshwater	short-term (single instance)			
PNEC	1.14 ^{µg} / _l	aquatic organisms	marine water	short-term (single instance)			
PNEC	20 ^{µg} /۱	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)			
PNEC	1.8 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)			
PNEC	0.64 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)			
PNEC	0.9 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)			

8.2 **Exposure controls**

Individual protection measures (personal protective equipment) **Eye/face protection**

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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	nanoparticle
Colour	dark green
Odour	odourless
Melting point/freezing point	1,092 °C

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Boiling point or initial boiling point and boiling range1,130 °CFlammabilitynon-combustibleLower and upper explosion limitnot determinedI Lower and upper explosion limitnot determinedFlash pointnot applicableAuto-ignition temperaturenot determinedDecomposition temperature736 - 761 °C at 1 atm (ECHA)pH (value)not applicableKinematic viscositynot relevantSolubility(ies)not determinedWater solubilitynot determinedPartition coefficientnot determinedPartition coefficient n-octanol/water (log value):not relevant (inorganic)Density and/or relative densitysas 9/cm³ at 22 °C (ECHA)Relative vapour densityInformation on this property is not available.	
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Density and/or relative density Density 5.83 ^g / _{cm³} at 22 °C (ECHA)	
Density 5.83 ^g / _{cm³} at 22 °C (ECHA)	
Density 5.83 ^g / _{cm³} at 22 °C (ECHA)	
Relative vapour density Information on this property is not available.	
Particle characteristics	
Particle size ~4.7 nm	
Other safety parameters	
Oxidising properties none	
Other information	
Information with regard to physical hazard hazard classes acc. to GHS classes: (physical hazards): not relevant	
Other safety characteristics: There is no additional information.	

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

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, Strong acid

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10.4 Conditions to avoid Keep away from heat. Decompositon takes place from temperatures above: 736 – 761 °C at 1 atm.

- **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 swallowed. Harmful in contact with skin. Harmful if inhaled.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>2,000 ^{mg} / _{kg}	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

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).

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

Data are not available.

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• If inhaled

Data are not available.

• If on skin

Data are not available.

• Other information

Headache, Dyspnoea, Pulmonary oedema, Nausea

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 (acu	ute)			
Endpoint	Value	Species	Source	Exposure time
LC50	>1 ^g /l	fish	ECHA	96 h
EC50	0.4 ^{mg} / _l	aquatic invertebrates	ECHA	48 h

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
LC50	0.25 ^{mg} / _l	aquatic invertebrates	ECHA	21 d
EC50	>1,000 ^{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 $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

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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

SECTION 14. Transport 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.

4.1	UN number	
	UN RTDG	UN 3077
	IMDG-Code	UN 3077
	ICAO-TI	UN 3077
4.2	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	Cadmium telluride
4.3	Transport hazard class(es)	
	UN RTDG	9
	IMDG-Code	9
	ICAO-TI	9
4.4	Packing group	
	UN RTDG	III
	IMDG-Code	III
	ICAO-TI	III
4.5	Environmental hazards	hazardous to the aquatic environment

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- **14.6** Special precautions for user There is no additional information.
- **14.7 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

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., (Cadmium telluride), 9, III		
Marine pollutant	YES (hazardous to the aquatic environment), (Cadmium tel- luride)		
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		



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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., (Cadmium telluride), 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 There is no additional information.

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
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	ISHA-ENCS	substance is listed
KR	KECI	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

Legena	
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
REACH Reg	. REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

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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 (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	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
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
РВТ	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

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Abbr.	Descriptions of used abbreviations
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
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.

Disclaimer

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