acc. to Safe Work Australia - Code of Practice

## Colour Standard ROTI®Calipure Gardner 12

article number: **1HTT** date of compilation: 2021-09-01 Version: **GHS 1.0 en** 



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

#### 1.1 Product identifier

Identification of the substance Colour Standard ROTI® Calipure Gardner 12

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

Relevant identified uses: Laboratory and analytical use

Laboratory chemical

Uses advised against: Do not use for squirting or spraying. Do not use

for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private

purposes (household).

## 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:

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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
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.2	Skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.45	Skin sensitisation	1	Skin Sens. 1	H317
3.6	Carcinogenicity	1B	Carc. 1B	H350
3.7	Reproductive toxicity	1B	Repr. 1B	H360F

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For full text of abbreviations: see SECTION 16

## The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

#### 2.2 Label elements

## Labelling

Signal word Danger

## **Pictograms**

GHS05, GHS07, GHS08







#### **Hazard statements**

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H350 May cause cancer H360F May damage fertility

#### **Precautionary statements**

## **Precautionary statements - prevention**

P260 Do not breathe dusts or mists P280 Wear eye protection/face protection

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

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P363 Wash contaminated clothing before reuse P390 Absorb spillage to prevent material damage

### **Precautionary statements - disposal**

P501 Dispose of contents/container to industrial combustion plant

For professional users only

**Hazardous ingredients for labelling:**Cobalt(II) chloride, Iron(III) chloride, Hydrochloric

acid .... %

## 2.3 Other hazards

## Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

#### 3.1 **Substances**

not relevant (mixture)

#### 3.2 **Mixtures**

## **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Hydrochloric acid %	CAS No 7647-01-0	2.5 - < 10	Met. Corr. 1 / H290 Skin Corr. 1 / H314 Eye Dam. 1 / H318 STOT SE 3 / H335		B(a)
Iron(III) chloride	CAS No 7705-08-0	3 - < 10	Met. Corr. 1 / H290 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317		
Cobalt(II) chloride	CAS No 7646-79-9	1-2	Acute Tox. 4 / H302 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 Muta. 2 / H341 Carc. 1B / H350i Repr. 1B / H360F	<b>(1)</b>	1(a) IARC: 2B

#### Notes

1(a): The concentration stated is the percentage by weight of the metallic element calculated with reference to the total

weight of the mixture

B(a): IARC: The classification refers to an aqueous solution

IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)

For full text of abbreviations: see SECTION 16

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

#### 4.1 **Description of first aid measures**



## **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

## Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. In case of skin reactions, consult a physician.

#### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

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## **Following ingestion**

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). 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

Corrosion, Risk of blindness, Gastric perforation, Risk of serious damage to eyes, 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 spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

## Unsuitable extinguishing media

water jet

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

Non-combustible.

#### **Hazardous combustion products**

In case of fire may be liberated: Hydrogen chloride (HCl)

## 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. Wear full chemical protective clothing.

#### **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 vapour/spray.

## 6.2 Environmental precautions

Keep away from drains, surface and ground water. 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.

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#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

## 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

Handle and open container with care. Avoid exposure. Clear contaminated areas thoroughly.

## 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

Keep container tightly closed.

## **Incompatible substances or mixtures**

Observe hints for combined storage.

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

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

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

#### 8.1 Control parameters

#### **National limit values**

## **Occupational exposure limit values (Workplace Exposure Limits)**

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
AU	hydrogen chloride (hydrochloric acid)	7647-01- 0	WES					5	7.5		WES

Notation

Ceiling-C STEL

TWA

Ceiling value is a limit value above which exposure should not occur

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)

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)

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Relevant DNELs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time			
Iron(III) chloride	7705-08-0	DNEL	2.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Hydrochloric acid %	7647-01-0	DNEL	8 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects			
Hydrochloric acid %	7647-01-0	DNEL	15 mg/m³	human, inhalat- ory	worker (industry)	acute - local ef- fects			
Cobalt(II) chloride	7646-79-9	DNEL	88.1 µg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects			

Relevant PNECs	Relevant PNECs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time				
Cobalt(II) chloride	7646-79-9	PNEC	0.62 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)				
Cobalt(II) chloride	7646-79-9	PNEC	2.36 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)				
Cobalt(II) chloride	7646-79-9	PNEC	0.37 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)				
Cobalt(II) chloride	7646-79-9	PNEC	53.8 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)				
Cobalt(II) chloride	7646-79-9	PNEC	69.8 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)				
Cobalt(II) chloride	7646-79-9	PNEC	10.9 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)				

## 8.2 Exposure controls

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





Use safety goggle with side protection. Wear face protection.

**Skin protection** 





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Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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

#### 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: Aerosol or mist formation. Type: B-P2 (combined filters for acidic gases and particles, colour code: Grey/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 liquid

Colour acc. to product description

Odour characteristic Melting point/freezing point not determined

Boiling point or initial boiling point and boiling

range

100 °C

**Flammability** non-combustible Lower and upper explosion limit not determined not determined Flash point Auto-ignition temperature not determined Decomposition temperature not relevant pH (value) <2 (20 °C)

not determined Kinematic viscosity

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Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value): not relevant (inorganic)

Vapour pressure 23 hPa

Density 1.258 <sup>g</sup>/<sub>cm³</sub> at 20 °C

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

Corrosive to metals category 1: corrosive to metals

Other safety characteristics:

Miscibility completely miscible with water

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Substance or mixture corrosive to metals.

## 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 alkali

## 10.4 Conditions to avoid

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

## 10.5 Incompatible materials

different metals

## 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## Classification acc. to GHS

### **Acute toxicity**

Shall not be classified as acutely toxic.

## Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Iron(III) chloride	7705-08-0	oral	500 <sup>mg</sup> / <sub>kg</sub>
Cobalt(II) chloride	7646-79-9	oral	418 <sup>mg</sup> / <sub>kg</sub>

## Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Iron(III) chloride	7705-08-0	oral	LD50	500 <sup>mg</sup> / <sub>kg</sub>	rat
Iron(III) chloride	7705-08-0	dermal	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat
Cobalt(II) chloride	7646-79-9	oral	LD50	418 <sup>mg</sup> / <sub>kg</sub>	rat

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

## Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

May cause cancer.

### Reproductive toxicity

May damage fertility.

## 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.

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

#### If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

## • If in eyes

causes burns, Causes serious eye damage, risk of blindness

#### • If inhaled

Data are not available.

#### • If on skin

causes severe burns, causes poorly healing wounds, May produce an allergic reaction, pruritis, localised redness

#### Other information

none

## 11.2 Endocrine disrupting properties

None of the ingredients are listed.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Cobalt(II) chloride	7646-79-9	LC50	1.512 <sup>mg</sup> / <sub>l</sub>	fish	96 h			
Cobalt(II) chloride	7646-79-9	EC50	2,618 <sup>µg</sup> / <sub>l</sub>	aquatic invertebrates	48 h			
Cobalt(II) chloride	7646-79-9	ErC50	71,314 <sup>µg</sup> / <sub>l</sub>	algae	96 h			

Aquatic toxicity (chronic) of components of the mixture								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Cobalt(II) chloride	7646-79-9	EC50	82.2 <sup>µg</sup> / <sub>l</sub>	aquatic invertebrates	21 d			

## **Biodegradation**

The methods for determining the biological degradability are not applicable to inorganic substances.

## 12.2 Process of degradability

Data are not available.

## 12.3 Bioaccumulative potential

Data are not available.

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Bioaccumulative potential	of componen	ts of the mixt	ure

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Iron(III) chloride	7705-08-0		-4 (24 °C)	
Cobalt(II) chloride	7646-79-9	23		

## 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

None of the ingredients are listed.

#### 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.

## Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

**H8** Corrosives

## 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.

## **SECTION 14: Transport information**

#### 14.1 UN number

UN RTDG UN 3264

IMDG-Code UN 3264 ICAO-TI UN 3264

## 14.2 UN proper shipping name

UN RTDG CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. IMDG-Code CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

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ICAO-TI Corrosive liquid, acidic, inorganic, n.o.s.

Technical name (hazardous ingredients) Hydrochloric acid .... %, Iron(III) chloride

14.3 Transport hazard class(es)

UN RTDG 8
IMDG-Code 8
ICAO-TI 8

14.4 Packing group

UN RTDG II
IMDG-Code II
ICAO-TI II

**14.5 Environmental hazards** hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment):

Cobalt(II) chloride

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

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 3264
Class 8
Environmental hazards Yes

Hazardous to the aquatic environment

Packing group II

Danger label(s) 8

Fish and tree

Special provisions (SP) 274 UN RTDG

Excepted quantities (EQ) E2

UN RTDG

Limited quantities (LQ)

ÜÑ RTDG

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Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Particulars in the shipper's declaration UN3264, CORROSIVE LIQUID, ACIDIC, INORGAN-

IC, N.O.Ś., (contains: Hydrochloric acid .... %, Iron(III) chloride, Cobalt(II) chloride), 8, II, MAR-

INE POLLUTANT

Marine pollutant yes (hazardous to the aquatic environment), (Cobalt(II) chlor-

ide)

Danger label(s) 8, "Fish and tree"

(\*) (\*)

Special provisions (SP) 274
Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L

EmS F-A, S-B

Stowage category B

Segregation group 1 - Acids

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s.

Particulars in the shipper's declaration UN3264, Corrosive liquid, acidic, inorganic, n.o.s.,

(contains: Hydrochloric acid .... %, Iron(III) chlor-

ide), 8, II

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 8



Special provisions (SP) A3
Excepted quantities (EQ) E2
Limited quantities (LQ) 0,5 L

## **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)

All ingredients are listed or exempt from listing.

#### 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.

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## **UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances**

Name of substance	CAS No	Listed in	HS code
Hydrochloric acid %	7647-01-0	Table II	2806.10

#### **National inventories**

Country	Inventory	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

AICS Australian Inventory of Chemical Substances
CICR Chemical Inventory and Control Regulation
CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)
DSL Domestic Substances List (DSL)
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China
INSQ National Inventory of Chemical Substances
KECI Korea Existing Chemicals 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
TSCA Toxic Substance Control Act

**TSCA Toxic Substance Control Act** 

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity

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Celling-C 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 EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European Inventory of Existing Commercial Chemical Substances ELINCS 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 Eye Dam.  Seriously damaging to the eye Eye Irrit.  Irritant to the eye Eye Irrit.  Irritant to the eye Eye Irrit.  Irritant to the eye  Eye Irrit.  IARC  International Agency for Research on Cancer IATA  International Agency for Research on Cancer IATA  International Agency for Research on Cancer IATA  IATA  International Agency for Research on Cancer IATA  IATA  International Agency for Research on Cancer IATA  IATA	Abbr.	Descriptions of used abbreviations
COD Chemical oxygen demand  DGR Dangerous Goods Regulations (see IATA/DGR)  DNEL Derived No-Effect Level  ECSO Effective Concentration 50%. The ECSO corresponds to the concentration of a tested substance causing 50% changes in response (e.g. on growth) during a specified time interval  EINECS European Inventory of Existing Commercial Chemical Substances  ELINCS European List of Notified Chemical Substances  ELINCS European List of Notified Chemical Substances  Emergency Schedule  ErCSO = ECSO: in this method, that concentration of test substance which results in a 50% reduction in either growth (EbCSO) or growth rate (ECSO) relative to the control  Eye Dam. Seriously damaging to the eye  Eye Irrit. Irritant to the eye  GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA Dangerous Goods Regulations (DGR) for the air transport (IATA)  ICAO International Maritime Dangerous Goods Code  IMDG International Maritime Dangerous Goods Code  IMDG International Maritime Dangerous Goods Code  IACSO Lethal Concentration 50%: the LCSO corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval  log KOW n-Octanol/water  MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr. Substance or mixture corrosive to metals  Muta. Germ cell mutagenicity  No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration	CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR Dangerous Goods Regulations (see IATA/DGR)  DNEL Derived No-Effect Level  ECSO 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  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  Eye Dam. Seriously damaging to the eye  Eye Irrit. Irritant to the eye  GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC International Agency for Research on Cancer  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  IMDG-Code Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval of the interval of the interval of the interval of the International Coventration of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr. Substance or mixture corrosive to metals  Muta. Germ cell mutagenicity  No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  Predicted No-Effect Concentration	Ceiling-C	Ceiling value
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  EINECS European Inventory of Existing Commercial Chemical Substances  ELINCS European List of Notified 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  Eye Dam. Seriously damaging to the eye  Eye Irrit. Irritant to the eye  GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA International Air Transport Association  IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA)  ICAO International Civil Aviation Organization  ICAO-II 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 % lethallty during a specified time interval log KOW  n-Octanol/water  MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr.  Substance or mixture corrosive to metals  Muta. Germ cell mutagenicity  N-L-D nonger Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration	COD	Chemical oxygen demand
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  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  Eye Dam. Seriously damaging to the eye  Eye Irrit. Irritant to the eye  GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA 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  LC50 Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval  log KOW n-Octanol/water  MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr. Substance or mixture corrosive to metals  Muta. Germ cell mutagenicity  No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration	DGR	Dangerous Goods Regulations (see IATA/DGR)
EINECS European Inventory of Existing Commercial Chemical Substances  ELINCS 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  Eye Dam. Seriously damaging to the eye  Eye Irrit. Irritant to the eye  GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA International Agency for Research on Cancer  IATA 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  International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr. Substance or mixture corrosive to metals  Muta. Germ cell mutagenicity  No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration  Parts per million	DNEL	Derived No-Effect Level
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  Eye Dam.  Seriously damaging to the eye  Eye Irrit.  Irritant to the eye  GHS  "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS  Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC  International Agency for Research on Cancer  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  INDG-Code  International Maritime Dangerous Goods 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  International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr.  Substance or mixture corrosive to metals  Muta.  Germ cell mutagenicity  No-Longer Polymer  PBT  Persistent, Bioaccumulative and Toxic  PNEC  Predicted No-Effect Concentration	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
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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  Eye Dam. Seriously damaging to the eye  Eye Irrit. Irritant to the eye  GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC International Agency for Research on Cancer  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  log KOW n-Octanol/water  MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr. Substance or mixture corrosive to metals  Muta. Germ cell mutagenicity  NLP No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration  Parts per million	ELINCS	European List of Notified Chemical Substances
Eye Dam.  Eye Irrit.  Irritant to the eye  Eye Irrit.  GHS  "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS  Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC  International Agency for Research on Cancer  IATA  International Agency for Research on Cancer  IATA  International Air Transport Association  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  Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval  log KOW  n-Octanol/water  MARPOL  International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr.  Substance or mixture corrosive to metals  Muta.  Germ cell mutagenicity  NLP  No-Longer Polymer  PBT  Persistent, Bioaccumulative and Toxic  PNEC  Predicted No-Effect Concentration  Parts per million	EmS	Emergency Schedule
Eye Irrit.  GHS  "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  HS  Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)  IARC  International Agency for Research on Cancer  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  log KOW  n-Octanol/water  MARPOL  International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr.  Substance or mixture corrosive to metals  Muta.  Germ cell mutagenicity  No-Longer Polymer  PBT  Persistent, Bioaccumulative and Toxic  Predicted No-Effect Concentration  Parts per million	ErC50	
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IMDG-Code  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  log KOW  n-Octanol/water  MARPOL  International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr.  Substance or mixture corrosive to metals  Muta.  Germ cell mutagenicity  NLP  No-Longer Polymer  PBT  Persistent, Bioaccumulative and Toxic  PNEC  Predicted No-Effect Concentration  Parts per million	ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
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Specified time interval   Iog KOW   n-Octanol/water	LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  Met. Corr. Substance or mixture corrosive to metals  Muta. Germ cell mutagenicity  NLP No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration  ppm Parts per million	LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
Met. Corr.  Substance or mixture corrosive to metals  Muta.  Germ cell mutagenicity  No-Longer Polymer  PBT  Persistent, Bioaccumulative and Toxic  PNEC  Predicted No-Effect Concentration  ppm  Parts per million	log KOW	n-Octanol/water
Muta. Germ cell mutagenicity  NLP No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration  ppm Parts per million	MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration  ppm Parts per million	Met. Corr.	Substance or mixture corrosive to metals
PBT Persistent, Bioaccumulative and Toxic  PNEC Predicted No-Effect Concentration  ppm Parts per million	Muta.	Germ cell mutagenicity
PNEC Predicted No-Effect Concentration  ppm Parts per million	NLP	No-Longer Polymer
ppm Parts per million	PBT	Persistent, Bioaccumulative and Toxic
	PNEC	Predicted No-Effect Concentration
Repr. Reproductive toxicity	ppm	Parts per million
•	Repr.	Reproductive toxicity

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acc. to Safe Work Australia - Code of Practice

## Colour Standard ROTI®Calipure Gardner 12

article number: 1HTT



Abbr.	Descriptions of used abbreviations
Resp. Sens.	Respiratory sensitisation
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
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 conatminants

## 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).

## **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H350i	May cause cancer by inhalation.
H360F	May damage fertility.

#### **Disclaimer**

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

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