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



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### Tin(II)chloride dihydrate ≥98 %, extra pure

article number: 7350 Version: 3.0 en Replaces version of: 2021-07-09 Version: (2)

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

**Product identifier** 1.1

Identification of the substance	Tin(II)chloride dihydrate ≥98 %, extra pure		
Article number	7350		
EC number	231-868-0		
CAS number	10025-69-1		
Relevant identified uses of the substance or mixture and uses advised against			

#### 1.2 Relevant identifi ture and uses advised against

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

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).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 Telefax: +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

### e-mail (competent person):

### sicherheit@carlroth.de

#### **Emergency telephone number** 1.4

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	Skin corrosion/irritation	1B	Skin Corr. 1B	H314
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	Skin sensitisation	1	Skin Sens. 1	H317
3.8R	Specific target organ toxicity - single exposure (respirat- ory tract irritation)	3	STOT SE 3	H335
3.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

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. Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

#### Labelling

Signal word Danger

### Pictograms



### Hazard statements

May be corrosive to metals Harmful if swallowed or if inhaled Causes severe skin burns and eye damage May cause an allergic skin reaction May cause respiratory irritation May cause damage to organs (cardiovascular system) through prolonged or re-
peated exposure (if swallowed) Harmful to aquatic life with long lasting effects

### **Precautionary statements**

#### **Precautionary statements - prevention**

- P260 Do not breathe dust
- P280 Wear protective gloves/eye protection/face protection

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### Precautionary statements - response

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P304+P340 P305+P351+P338	IF INHALED: Remove person to fresh air and keep comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
P308+P311	lenses, if present and easy to do. Continue rinsing IF exposed or concerned: Call a POISON CENTER/doctor

### 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.

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

### 3.1 Substances

Name of substance	Tin(II)chloride dihydrate
Molecular formula	$Cl_2Sn \cdot 2 H_2O$
Molar mass	225,6 <sup>g</sup> / <sub>mol</sub>
CAS No	10025-69-1
EC No	231-868-0

Substance, Specific Conc. Limits, M-factors, ATE				
Specific Conc. Limits	M-Factors	ATE	Exposure route	
-	-	1.910 <sup>mg</sup> / <sub>kg</sub> 2 <sup>mg</sup> / <sub>l</sub> /4h	oral inhalation: dust/ mist	

### **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. Rinse mouth with water (only if the person is conscious). Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Corrosion, Vomiting, Risk of blindness, Gastric perforation, Risk of serious damage to eyes, Irritation, Allergic reactions, Cough, Dyspnoea

### 4.3 Indication of any immediate medical attention and special treatment needed

none

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

### Unsuitable extinguishing media

water jet

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

Non-combustible.

### 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. 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. 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 dust.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. 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

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### 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

Handle and open container with care. Provision of sufficient ventilation. Avoid dust formation. Clear contaminated areas thoroughly.

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

Removal of dust deposits.

### Advice on general occupational hygiene

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. Hygroscopic solid.

### Incompatible substances or mixtures

Observe hints for combined storage.

#### Protect against external exposure, such as

humidity, contact with air/oxygen

#### **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**

### 8.1 Control parameters

National limit values

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



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

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m <sup>3</sup> ]	Ceil- ing-C [mg/	Nota- tion	Source
						m³]		
GB	dust		WEL	10			i	EH40/2005
GB	dust		WEL	4			r	EH40/2005
Notatio	n							

Ceiling value is a limit value above which exposure should not occur Inhalable fraction Ceiling-C **Respirable fraction** STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute 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) TWA

### Human health values

Relevant DNELs and other threshold levels					
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time	
DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects	
DNEL	2,01 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects	
DNEL	12,84 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects	
DNEL	0,34 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects	
DNEL	0,69 mg/kg bw/ day	human, dermal	worker (industry)	acute - systemic effects	

### **Environmental values**

Relevant PNECs and other threshold levels						
End- point	Threshold level	Organism	Environmental com- partment	Exposure time		
PNEC	0,8 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)		
PNEC	51,37 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	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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#### hand protection

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

>0,3 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
Colour	white
Odour	odourless
Melting point/freezing point	37 °C at 1.013 hPa (ECHA)
Boiling point or initial boiling point and boiling range	623 °C at 1.013 hPa (ECHA)
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not applicable

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Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	2 (in aqueous solution: 100 <sup>g</sup> / <sub>l</sub> , 20 °C)
Kinematic viscosity	not relevant
Solubility(ies)	
Water solubility	1.187 <sup>g</sup> / <sub>l</sub> at 20 °C
Partition coefficient	
Partition coefficient n-octanol/water (log value):	not relevant (inorganic)
Vapour pressure	3,3 kPa at 429 °C
Density and/or relative density	
	2 74 94
Density	2,71 <sup>g</sup> / <sub>cm<sup>3</sup></sub>
Relative vapour density	information on this property is not available
Bulk density	~1.250 <sup>kg</sup> / <sub>m³</sub>
Particle characteristics	No data available.
Other safety parameters	
Oxidising properties	none
Other information	
Information with regard to physical hazard classes:	
Corrosive to metals	category 1: corrosive to metals
Other safety characteristics:	There is no additional information.

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

### 10.1 Reactivity

9.2

It's a reactive substance. Substance or mixture corrosive to metals.

### 10.2 Chemical stability

Moisture-sensitive. Hygroscopic solid.

### **10.3** Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Ethylene oxide, Hydrazine, Strong alkali, Hydrogen peroxide

### 10.4 Conditions to avoid

Humidity. Contact with air/oxygen.

### **10.5** Incompatible materials

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different metals

### 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 if inhaled.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	1.910 <sup>mg</sup> / <sub>kg</sub>	rat	anhydrous	OECD 423
oral	LD50	2.275 <sup>mg</sup> / <sub>kg</sub>	rat	anhydrous	ECHA
inhalation: dust/ mist	LC50	2 <sup>mg</sup> /ı/4h	monkey	anhydrous	OECD 436

### 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

Shall not be classified as carcinogenic.

### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure

May cause damage to organs (cardiovascular system) through prolonged or repeated exposure (if swallowed).

Hazard category	Target organ	Exposure route
2	cardiovascular system	if swallowed

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

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

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### • 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

Irritation to respiratory tract, cough, Dyspnoea

### • If on skin

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

### Other information

Other adverse effects: Cardiovascular system

# **11.2 Endocrine disrupting properties** Not listed.

### 11.3 Information on other hazards

There is no additional information.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute)					
Endpoint	Value	Species	Source	Exposure time	
LC50	50 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	96 h	

### **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.

### 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** Not listed.
- 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

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 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. Waste catalogue ordinance (Germany).

### 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 or ID number	
	ADRRID	UN 3260
	IMDG-Code	UN 3260
	ICAO-TI	UN 3260
14.2	UN proper shipping name	
	ADRRID	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
	IMDG-Code	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
	ICAO-TI	Corrosive solid, acidic, inorganic, n.o.s.
	Technical name	Tin(II)chloride dihydrate
14.3	Transport hazard class(es)	
	ADRRID	8
	IMDG-Code	8
	ICAO-TI	8
14.4	Packing group	
	ADRRID	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations

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### **14.6** Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.

### **14.7** Maritime 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 of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional
information

Proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Particulars in the transport document	UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., (Tin(II)chloride dihydrate), 8, II, (E)
Classification code	C2
Danger label(s)	8
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	80
Emergency Action Code	2X
Regulations concerning the International Carri information	age of Dangerous Goods by Rail (RID)Additional
Classification code	C2
Danger label(s)	8
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
Transport category (TC)	2
Hazard identification No	80

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Particulars in the shipper's declaration	UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., (Tin(II)chloride dihydrate), 8, II
Marine pollutant	-
Danger label(s)	8

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Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
EmS	F-A, S-B
Stowage category	В
Segregation group	1 - Acids
International Civil Aviation Organization (ICAO	-IATA/DGR) - Additional information
Proper shipping name	Corrosive solid, acidic, inorganic, n.o.s.
Particulars in the shipper's declaration	UN3260, Corrosive solid, acidic, inorganic, n.o.s., (Tin(II)chloride dihydrate), 8, II
Danger label(s)	8
Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 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/	2012/18/EU (Seveso III)				
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes		
	not assigned				

### **Deco-Paint Directive**

VOC content	0 %
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### Industrial Emissions Directive (IED)

VOC content

0 %

# 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

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Water Framework Directive (WFD)				
List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Tin(II)chloride dihydrate	Metals and their compounds		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**

not listed

### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### **National inventories**

Country	Inventory	Status
AU	AIIC	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed

Legend AIIC CICR

Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation acc. to Regulation (EC) No. 1907/2006 (REACH)

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Legend	
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
NZIOC PICCS REACH Reg	Korea Existing Chemicals Inventory New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) . REACH registered substances Taiwan Chemical Substance Inventory

### 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)

Alignment to regulation:

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
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
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances

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Abbr.	Descriptions of used abbreviations
EmS	Emergency Schedule
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
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
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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



### Tin(II)chloride dihydrate ≥98 %, extra pure

### article number: 7350

Code	Text
H373	May cause damage to organs (cardiovascular system) through prolonged or repeated exposure (if swal- lowed).
H412	Harmful 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.