according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

# Strychnine ROTICHROM® CHR ≥95 %, for biochemistry

article number: 4843 date of compilation: 2017-01-09 Version: 3.0 en Revision: 2024-03-02

Replaces version of: 2022-02-25

Version: (2)

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

#### **Product identifier** 1.1

Identification of the substance Strychnine ROTICHROM® CHR ≥95 %, for bio-

chemistry

Article number 4843

It is not required to list the identified uses be-Registration number (REACH)

cause the substance is not subject to registration

according to REACH (< 1 t/a).

Index number in CLP Annex VI 614-003-00-5 EC number 200-319-7 CAS number 57-24-9

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

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

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

#### 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

sheet:

e-mail (competent person): sicherheit@carlroth.de

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

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Centre Beaumont Hospital	Beaumont Road	Dublin 9	+353 1 809 2166	https:// www.poisons.ie/

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# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	1	Acute Tox. 1	H300
3.1D	Acute toxicity (dermal)	1	Acute Tox. 1	H310
4.1A	Hazardous to the aquatic environment - acute hazard		Aquatic Acute 1	H400
4.1C	4.1C Hazardous to the aquatic environment - chronic hazard		Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16

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

Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

# **Pictograms**

GHS06, GHS09





# **Hazard statements**

H300+H310 Fatal if swallowed or in contact with skin

H410 Very toxic to aquatic life with long lasting effects

# **Precautionary statements**

# **Precautionary statements - prevention**

P280 Wear protective gloves/protective clothing/eye protection/face protection

# **Precautionary statements - response**

P302+P352 IF ON SKIN: Wash with plenty of soap and water P310 Immediately call a POISON CENTER/doctor

P391 Collect spillage

# **Precautionary statements - storage**

P405 Store locked up

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



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H300+H310 Fatal if swallowed or in contact with skin.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water. P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

# 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

# **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

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

### 3.1 Substances

Name of substance Strychnine Molecular formula  $C_{21}H_{22}N_2O_2$  Molar mass  $334,4\,^{9}/_{mol}$  CAS No 57-24-9 EC No 200-319-7 Index No 614-003-00-5

Substance,	Specific	Conc Li	imits	M-factors	ΔTF
Substance,	Specific	COIIC. L	IIIIILS,	IVI-I actors,	AIL

Specific Conc. Limits	M-Factors	ATE	Exposure route
-	-	2,35 <sup>mg</sup> / <sub>kg</sub> 5 <sup>mg</sup> / <sub>kg</sub>	oral dermal

# **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.

### 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 immediately and drink plenty of water. Call a physician immediately.

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

Poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of

# 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

Combustible.

# **Hazardous combustion products**

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

# 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. 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.

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# 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. Avoid dust formation. Clear contaminated areas thoroughly.

# Measures to protect the environment

Avoid release to the environment.

# Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

# **Incompatible substances or mixtures**

Observe hints for combined storage.

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

Store locked up.

# 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)

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
IE	strychnine	57-24-9	OELV	0,15				S.I. No. 619 of 2001

**Notation** 

**STEL** 

**TWA** 

Ceiling-C 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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# 8.2 Exposure controls

# Individual protection measures (personal protective equipment)

# **Eye/face protection**





Use safety goggle with side protection.

# Skin protection





# hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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: Dust formation. Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

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

# 9.1 Information on basic physical and chemical properties

Physical state solid

Form crystalline
Colour light yellow
Odour odourless
Melting point/freezing point 286 – 288 °C

Boiling point or initial boiling point and boiling

range

Flammability

this material is combustible, but will not ignite

readily

270 °C at 6,7 hPa

Lower and upper explosion limit not determined
Flash point not applicable
Auto-ignition temperature not determined
Decomposition temperature not relevant
pH (value) not applicable
Kinematic viscosity not relevant

Solubility(ies)

Water solubility 0,16 <sup>g</sup>/<sub>1</sub> at 25 °C (poorly soluble)

Partition coefficient

Partition coefficient n-octanol/water (log value): 1,93

Vapour pressure not determined

Density and/or relative density

Density 1,36 <sup>g</sup>/<sub>cm³</sub> at 20 °C

Relative vapour density Information on this property is not available.

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard classes acc. to GHS classes: hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

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# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 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

### 10.4 Conditions to avoid

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

# 10.5 Incompatible materials

There is no additional information.

# 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Classification according to GHS (1272/2008/EC, CLP)

### **Acute toxicity**

Fatal if swallowed. Fatal in contact with skin.

_				• .
Αcι	ıtα	to	VIC	141/
$\neg$	a cc	LU	7IC	ILV

Exposure route	Exposure route Endpoint		Value Species		Source
oral	LD50	2,35 <sup>mg</sup> / <sub>kg</sub>	rat		TOXNET
dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rabbit		

# 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.

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# **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.

### If inhaled

Data are not available.

### • If on skin

Data are not available.

### Other information

Dyspnoea, Spasms, Agitation

# 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

# 11.3 Information on other hazards

There is no additional information.

# SECTION 12: Ecological information

#### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

#### **Aquatic toxicity (acute) Endpoint Exposure Value Species Source** time LC50 0,76 mg/<sub>I</sub> bluegill (Lepomis mac-96 h rochirus)

# 12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): 2,296  $^{\rm mg}/_{\rm mg}$  Theoretical Oxygen Demand (with nitrification): 2,5  $^{\rm mg}/_{\rm mg}$  Theoretical Carbon Dioxide: 2,764  $^{\rm mg}/_{\rm mg}$ 

# 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	1,93

#### 12.4 Mobility in soil

Data are not available.

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### 12.5 Results of PBT and vPvB assessment

Data are not available.

# 12.6 Endocrine disrupting properties

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

### 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

# Sewage disposal-relevant information

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

# Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

# 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## Properties of waste which render it hazardous

**HP 6** acute toxicity

HP 14 ecotoxic

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

# 14.1 UN number or ID number

ADRRID UN 1692
IMDG-Code UN 1692
ICAO-TI UN 1692

# 14.2 UN proper shipping name

ADRRID STRYCHNINE IMDG-Code STRYCHNINE ICAO-TI Strychnine

### 14.3 Transport hazard class(es)

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ADRRID 6.1
IMDG-Code 6.1
ICAO-TI 6.1

14.4 Packing group

ADRRID I IMDG-Code I ICAO-TI I

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

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.

# 4.8 Information for each of the UN Model Regulations

# Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name STRYCHNINE

Particulars in the transport document UN1692, STRYCHNINE, 6.1, I, (C/E), environment-

ally hazárdous

Classification code T2

Danger label(s) 6.1, "Fish and tree"

Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 802(ADN)

Excepted quantities (EQ) E5
Limited quantities (LQ) 0
Transport category (TC) 1
Tunnel restriction code (TRC) C/E
Hazard identification No 66

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

Classification code T2

**Danger label(s)** 6.1, "Fish and tree"

Environmental hazards Ye

Hazardous to water

Special provisions (SP) 802(ADN)

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Excepted quantities (EQ) E5
Limited quantities (LQ) 0
Transport category (TC) 1
Hazard identification No 66

# International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name STRYCHNINE

Particulars in the shipper's declaration UN1692, STRYCHNINE, 6.1, I, MARINE POLLUT-

ANT

Marine pollutant yes (P) (hazardous to the aquatic environment)

Danger label(s) 6.1, "Fish and tree"



Special provisions (SP) 43
Excepted quantities (EQ) E5
Limited quantities (LQ) 0

EmS F-A, S-A

Stowage category A

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

Proper shipping name Strychnine

Particulars in the shipper's declaration UN1692, Strychnine, 6.1, I

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 6.1



Special provisions (SP) A5
Excepted quantities (EQ) E5

# **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)

Restrictions according to REACH, Annex XVII

not listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list Not listed.

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## **Seveso Directive**

2012/	2012/18/EU (Seveso III)							
No	Dangerous substance/hazard categories	gories Qualifying quantity (tonnes) for the application of lower and upper-tier requirements						
H1	acute toxic (cat. 1)	5	20	40)				

### Notation

40) Category 1, all exposure routes

# **Deco-Paint Directive**

VOC content	0 %
VOC content	0 g/l

### **Industrial Emissions Directive (IED)**

VOC content	0 %
VOC content	0 <sup>g</sup> / <sub>I</sub>

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

# **Water Framework Directive (WFD)**

not listed

# 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)

chemicals subject to the international prior informed consent (PIC) procedure (the 'PIC procedure').

Name of substance	Name acc. to inventory	CAS No	Wt%	Category / subcat- egory	Use limita- tion
Strychnine	strychnine	57-24-9	100	p(1)	b

### Legend

b Use limitation: ban (for the sub-category or sub-categories concerned) according to Union legislation p(1) Sub-category: p(1) - pesticide in the group of plant protection products

# Regulation on persistent organic pollutants (POP)

not listed

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### 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
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

DSL ECSI IECSC

Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Korea Existing Chemicals Inventory
National Chemical Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
Taiwan Chemical Substance Inventory
Toxic Substance Control Act INSQ

# 15.2 Chemical safety assessment

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

# **SECTION 16: Other information**

# **Indication of changes (revised safety data sheet)**

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8	Classification code: 6.1	Classification code: T2	yes
15.1	VOC content: 0 % 0 <sup>9</sup> / <sub>l</sub>	VOC content: 0 %	yes
15.1		VOC content: 0 <sup>g</sup> / <sub>l</sub>	yes
15.1		Regulation concerning the export and import of hazardous chemicals (PIC): change in the listing (table)	yes

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

# **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerr 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
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
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 Nations
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
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
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 specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
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)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001

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Abbr.	Descriptions of used abbreviations
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

# Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

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
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

# **Disclaimer**

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

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