

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878  
Version 6.0 Revision date: 19-09-2024  
Trade name: Oxalic acid dihydrate ≥99%, crystalline

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

### 1.1 Product identification:

Product name: Oxalic acid dihydrate ≥99%, crystalline  
Registratienummer (REACH): 01-2119534576-33  
Cataloguing number in Annex VI to CLP: 607-006-00-8  
EC number: 205-634-3  
CAS number: 6153-56-6

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

Relevant identified uses: Laboratory chemicals.  
Analytical and laboratory applications.  
Uses advised against: Not to be used for products in contact with food.  
Not to be used for private purposes (household).  
Food, drinks and animal feed.

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

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### 1.4 Emergency phone number:

For Belgium: Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.  
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### 2.1 Classification of the substance or mixture:

#### **Classification according to directive (EC) No 1272/2008 and its amendments.**

CLP classification : The product is classified as dangerous according to Regulation 1272/2008/EC

Acute oral toxicity 4 (Acute Tox. 4) - H302  
Acute dermal toxicity 4 (Acute Tox. 4) - H312  
Serious eye damage/eye irritation 1 (Eye Dam. 1) - H318  
Full text of H-Statements: see section 16

### 2.2 Labelling elements:

#### **Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:**



**Hazard pictograms:**

**Signal word:** Danger

**Hazard statements:**

H302+H312 Harmful if swallowed and in contact with skin.  
H318 Causes serious eye damage.

**Safety recommendations:**

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## Precautions - prevention

P270 Do not eat, drink or smoke while using this product.

P280 Wear protective gloves/eye protection.

## Precautions - reaction

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses, if possible; continue rinsing.

P310 Immediately consult a POISON CENTER/doctor.

## Labelling of packages with a total content not exceeding 125 ml

Signal word: Danger



## Symbol/symbols:

### Hazard statements:

H318 Causes serious eye damage.

### Safety recommendations:

P280 Wear protective gloves/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses, if possible; continue rinsing.

P310 Immediately consult a POISON CENTER/doctor.

## Labelling of packages with a total content not exceeding 10 ml

Signal word: Not required



## Symbol/symbols:

Hazard statements: Not required

Safety recommendations: Not required

## 2.3 Other hazards:

### Results of PBT and vPvB assessment

The results of the assessment of the substance show that it is not a PBT or vPvB substance.

### Endocrine-disrupting properties

Contains no endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition and information on ingredients

### 3.1 Substances:

Name of the substance: Oxalic acid dihydrate

Molecular formula:  $C_2H_2O_4 - 2 H_2O$

Molar mass: 126 g/mol

Substance name:	Product identification	%	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP].
Oxalic acid dihydrate	CAS no. : 6153-56-6 EC No : 205-634-3 Index No: 607-006-00-8 REACH No: 01-2119534576-33	100 %	Acute Tox. 4 (Oral) - H302 Acute Tox. 4 (Dermal) - H312 Eye Dam. 1 - H318  ATE: 500 mg/kg (Oral) 1,100 mg/kg (Dermal)

Full text of H-Statements: see section 16

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures:

#### General comments

Remove contaminated clothing.

#### When inhaled

According to directive 1907/2006/EC, 2020/878  
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Provide fresh air.

If in doubt or if symptoms persist, consult a doctor.

#### **In case of skin contact**

Rinse/shower skin with water.

If in doubt or if symptoms persist, consult a doctor.

#### **On eye contact**

In case of contact with eyes, rinse immediately with opened eyelids for 10 to 15 minutes with running water and consult an ophthalmologist.

#### **If swallowed**

Rinse mouth with water (only if the person is conscious).

Consult a doctor.

#### 4.2 Main acute and delayed symptoms and effects

Irritation, Nausea, Vomiting, Cough, Respiratory difficulties, Agitation, Cramping, Circulatory disturbance, Danger of serious eye damage, Danger of blindness.

#### 4.3 Indication of immediate required medical care and special treatment

None.

### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media:

##### **Suitable extinguishing agents:**

Match fire-fighting measures to environment.

Water, foam, alcohol-resistant foam, dry extinguishing powder, ABC powder.

##### **Unsuitable extinguishing agents**

Full water jet.

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

Flammable.

##### **Hazardous combustion products**

In case of fire, it can produce: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion, avoid breathing fumes.

With normal precautions, extinguish from a reasonable distance.

Wear self-contained breathing apparatus.

### **SECTION 6: Measures in case of accidental release of the substance or mixture**

#### 6.1 Personal precautions, protective equipment and emergency procedures:

##### **For persons other than emergency services**

Use the necessary personal protective equipment.

Avoid contact with skin, eyes and clothing.

Do not inhale dust.

#### 6.2 Environmental precautions

Avoid getting the product into drains, surface water or groundwater.

Retain and remove contaminated wash water.

The product is an acid.

Before pouring into treatment plant, neutralise the product.

#### 6.3 Containment and cleaning methods and materials

##### **Advice on how to contain the spill**

Covering drains.

Mechanical recording.

##### **Advice on how to clean up the spill**

Mechanical recording.

Combating dust formation.

##### **Other information relating to the discharge or release**

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Put into suitable retainers 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.

Instructions for disposal: see section 13.

### SECTION 7: Handling and storage:

#### 7.1 Precautions for safe handling of the substance or mixture:

Avoid dust generation.

#### Advice on general occupational hygiene

Wash hands before work breaks and end of work.

Keep away from food, drink and animal feed.

#### 7.2 Conditions for safe storage, including incompatible products

Store in a dry place.

Keep in tightly closed container.

#### Incompatible substances or mixtures

Note advice for chemical storage.

Incompatible materials: see section 10.

#### Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use

No information is available.

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

#### 8.1 Control parameters:

#### National limits

Occupational exposure limits (occupational exposure limits)

Country	Substance name	CAS No.	Identification	TGG 8 hours [mg/m <sup>3</sup> ]	TGG 15 min [mg/m <sup>3</sup> ]	CW [mg/m <sup>3</sup> ]	Notation	Source
BE	oxalic acid, anhydrous	144-62-7	VLEP/GWBB	1	2			Moniteur Belge
BE	oxalic acid, anhydrous	6153-56-6	VLEP/GWBB	1	2			Moniteur Belge
EU	Oxalic acid	144-62-7	IOELV	1				2006/15/EC

#### Notation

CW: Ceiling value is a limit value that must not be exceeded (ceiling value)

TGG 15 min: Short-time value (short-term exposure limit value): limit value not to be exceeded that applies, for a period of 15 minutes (unless otherwise stated)

TGG 8 hours: Time weighted average (long-term exposure limit): measured or calculated from an eight-hour reference period (unless otherwise stated)

#### Values related to human health:

Relevant DNEL and other thresholds

End point	Threshold	Protection objective, route of exposure	Used in	Exposure time
DNEL	3.11 mg/m <sup>3</sup>	human, via inhalation	(industrial) employees	chronic - systemic effects
DNEL	0.882 mg/kg bw/day	human, through the skin	(industrial) employees	chronic - systemic effects

#### Environmental values

Relevant PNEC and other thresholds

End point	Threshold	Organism	Environmental compartments	Exposure time
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PNEC	0.16 mg/l	Aquatic organisms	fresh water	short-term (one-off)
PNEC	0.016 mg/l	Aquatic organisms	Seawater	short-term (one-off)
PNEC	1,550 mg/l	Aquatic organisms	Sewage treatment plants (STP)	short-term (one-off)

## 8.2 Exposure control measures:

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear safety goggles with side protection.

#### Skin protection

##### Hand protection

Wear suitable gloves.

Suitable are EN 374-tested gloves against chemicals.

It is recommended that, in case of special applications, the chemical resistance of the safety gloves mentioned above be checked together with the supplier of the gloves.

Times are estimated values from measurements at 22°C and permanent contact.

Increased temperatures due to heated fabrics, body heat, etc.

And a reduction in effective layer thickness due to stretching can lead to a significant reduction in breakthrough time.

If in doubt, contact the manufacturer.

For a layer thickness approximately 1.5 times larger / smaller, the respective breakthrough time is doubled / halved.

The data applies only to the pure substance.

When transferred to mixtures of substances, they should only be considered as guidelines.

#### Type of material

NBR (nitrile rubber)

#### Material thickness

>0.11 mm

#### Breakthrough time of glove material

>480 minutes (permeation level: 6)

### Other protective equipment

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

### Protection of respiratory organs

Respiratory protection is necessary in case of: Dust generation.

Particle filter (EN 143).

P2 (filters at least 94% of air particles, colour code: white).

### Managing environmental exposure

Avoid getting the product into drains, surface water or groundwater.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Physical state:	solid
Shape:	crystalline
Colour:	white
Odour:	odourless
Melting/freezing point:	98 - 101°C (Issuing crystal clear water)
Boiling point or initial boiling point and boiling range:	149 - 160°C (slow decomposition)
Flammability:	this material is flammable, but will not easily catch fire
Lower and upper explosion limit:	not determined
Flash point:	not applicable
Auto-ignition temperature:	>400°C
Decomposition temperature:	>110°C
pH value: 1	.5 (in aqueous solution: 10 g/l, 20°C)

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Kinematic viscosity: irrelevant  
**Solubility**  
Solubility in water: >100 g/l at 25°C  
**Partition coefficient**  
Partition coefficient n-octanol/water (log value): -1.74 (TOXNET)  
Vapour pressure: <0.1 hPa at 25°C  
**Density and/or relative density**  
Density: 1.65 g/cm<sup>3</sup> at 20°C  
Relative vapour density: irrelevant (solid)  
Bulk density: 800 - 900 kg/m<sup>3</sup>  
Particle characteristics: No data available.  
**Other safety parameters**  
Oxidising properties: no  
**9.2 Other information**  
Information on physical hazard classes: hazard classes in accordance with GHS (physical hazards): not relevant  
Other safety features: There is no further information.

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

### **10.1 Reactivity:**

The product in its delivered form is not capable of causing a dust explosion, however the enrichment of fine dust leads to a dust explosion hazard.

### **10.2 Chemical stability**

The material is stable under normal atmospheric conditions and expected temperature and pressure during storage and handling.

### **10.3 Possible hazardous reactions**

**Explosion hazard:** Chlorates, Silver, strong oxidising.

**Exothermic reaction with:** Alkalis, Ammonia, Mercury.

### **10.4 Conditions to avoid**

Keep away from heat.

Decomposition occurs from temperatures of: >110°C.

### **10.5 Incompatible materials**

There is no further information.

### **10.6 Hazardous decomposition products**

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects:**

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

#### **Acute toxicity :**

Harmful if swallowed.

Harmful in contact with skin.

Route of exposure	End point	Value	Species	Method	Source
Oral	LD50	7,500 mg/kg	Rat	Anhydrous	TOXNET
Dermal	LD50	20,000 mg/kg	Rabbit	Anhydrous	ECHA

#### **Skin corrosion/irritation:**

Is not classifiable as corrosive/irritating to the skin.

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Respiratory or skin sensitisation**

Is not classifiable as inhalant or skin allergenic.

#### **Mutagenicity in gametes**

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Is not classifiable as mutagenic in germ cells (mutagenic).

**Carcinogenicity**

Is not classifiable as carcinogenic.

**Reproductive toxicity**

Is not classifiable as a reproductive toxicant.

**Specific target organ toxicity at single exposure**

Cannot be classified as toxic to specific target organs (single exposure).

**Specific target organ toxicity on repeated exposure**

Cannot be classified as toxic to specific target organs (repeated exposure).

**Inhalation hazard**

Is not classifiable as dangerous in aspiration.

**Symptoms related to physical, chemical and toxicological properties**

- After swallowing vomiting, nausea
- In case of contact with eyes Causes serious eye damage, danger of blindness
- After inhalation cough, breathing difficulties, Shortness of breath
- On contact with skin Frequent and prolonged skin contact can lead to skin irritation
- Other information Other adverse effects: Restlessness, Cramping, Circulatory disturbance, Renal impairment

11.2 Endocrine disrupting properties

Contains no endocrine disruptor (ED) at a concentration of ≥ 0.1%.

11.3 Information on other hazards

There is no further information.

**SECTION 12: Ecological information**

12.1 Toxicity:

Cannot be classified as hazardous to the aquatic environment.

**Aquatic toxicity (acute)**

End point	Value	Species	Source	Exposure time
EC50	162.2 mg/l	aquatic invertebrates	ECHA	48h
ErC50	<21.35 mg/l	Alg	ECHA	72h

12.2 Persistence and Degradability:

Theoretical oxygen consumption: 0.1269 mg/mg  
 Theoretical amount of carbon dioxide: 0.6984 mg/mg  
 Biological oxygen demand: 0.16 g/g at 5 d

**Biodegradation**

The fabric is easily biodegradable.  
 BOD5/COD: 0.88888889

**Process of degradability**

Process	Degradation rate	Time
biotic/abiotic	40%	5d
Oxygen depletion	89%	5d

12.3 Bioaccumulation:

Does not concentrate significantly in organisms.

n-octanol/water (log KOW)	-1.74 (TOXNET)
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12.4 Mobility in soil:

No data are available.

12.5 Results of PBT and vPvB assessment

No data are available.

12.6 Endocrine disrupting properties

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Contains no endocrine disruptor (ED) at a concentration of ≥ 0.1%.

#### 12.7 Other adverse effects

No data are available.

### **SECTION 13: Disposal instructions**

#### 13.1 Waste treatment methods:

##### **Waste product:**

Dispose of this substance and its packaging as hazardous waste.

Dispose of contents/packaging in accordance with local/regional/national/international regulations.

##### **Information regarding wastewater discharge**

Do not throw waste in the sink.

##### **Relevant provisions on waste prevention**

The allocation of waste key numbers/waste markings should be industry- and process-specific in accordance with AVV.

##### **Hazardous properties of waste**

HP 4 irritant - skin irritation and eye damage

HP 6 acute toxicity

##### **Comments**

Waste is separated into the categories that can be treated separately by local or national waste management services.

Please note the relevant national or regional provisions.

Uncontaminated and completely empty containers can be used again.

### **SECTION 14: Information relating to transport**

#### 14.1 UN number

Not regulated as a hazardous substance

#### 14.2 Proper cargo name according to UN model regulations

Not regulated as a hazardous substance

#### 14.3 Transport hazard class(es)

Not regulated as a hazardous substance

#### 14.4 Packing group

Remarks : IMDG Code Segregation group - none

Not regulated as a hazardous substance

#### 14.5 Environmental hazards

Not regulated as a hazardous substance

#### 14.6 Special precautions for the user

Not applicable

#### 14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

Not applicable to product as delivered.

#### 14.8 Information for each of the UN regulations

##### **Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - Additional information:**

Not subject to ADR, RID and ADN.

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

Not subject to IMDG.

##### **International Civil Aviation Organisation (ICAO-IATA/DGR) - Additional information:**

Not subject to ICAO-IATA.

### **SECTION 15: Statutory information**

#### 15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

##### **Relevant European Union (EU) provisions**

##### **Restrictions in accordance with REACH, Annex XVII**

Not stated.

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**List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list**

Not stated.

**Seveso Directive  
 2012/18/EU (Seveso III)**

**Hazardous substance/hazard categories:**

Not stated.

**Decopaint Directive**

VOC content: 100 %  
 VOC content: 1,650 g/l

**Directive on industrial emissions (IE Directive)**

VOC content: 0 %  
 VOC content: 0 g/l

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

not listed

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

not listed

**Water framework directive (WFD)**

not listed

**Regulation on marketing and use of explosives precursors**

not listed

**Regulation on drug precursors**

not listed

**Regulation on ozone-depleting substances**

not listed

**Regulation on export and import of dangerous chemicals (PIC)**

not listed

**Regulation on persistent organic pollutants (POPs)**

not listed

**Other information**

Directive 94/33/EC on the protection of young people at work. Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

**National inventories**

Country	List	Status
AU	AIIC	substance is mentioned
CN	IECSC	substance is mentioned
EU	ECSI	substance is mentioned
KR	KECI	substance is mentioned
NZ	NZIoC	substance is mentioned
PH	PICCS	substance is mentioned
TR	CICR	substance is mentioned
TW	TCSI	substance is mentioned
UN	NCI	substance is mentioned

**Legend**

AIIC: Australian Inventory of Chemical Substances  
 CICR: Chemical Inventory and Control Regulation  
 CSCL-ENCS: List of Existing and New Chemical Substances (CSCL-ENCS)  
 ECSI: EC Inventory (EINECS, ELINCS, NLP)  
 IECSC: Inventory of Existing Chemical Substances Produced or Imported in China  
 KECI: Korea Existing Chemicals Inventory  
 NCI: National Chemical Inventory  
 NZIoC: New Zealand Inventory of Chemicals  
 PICCS: Philippine Inventory of Chemicals and Chemical Substances (PICCS)  
 TCSI: Taiwan Chemical Substance Inventory

15.2 Chemical safety assessment:

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According to REACH, Article 14(1), a chemical safety assessment has been carried out for this substance or components of this mixture when the substance is registered in quantities of 10 tonnes or more per year per registrant.

## **SECTION 16: Other information**

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

Aligning with regulation: Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU  
2.2 Labelling of packages with a total content not exceeding 125 ml: change in the list (table)  
2.2 Hazard pictogram(s): change in the list (table)  
2.2 Labelling of packages with a total content not exceeding 10 ml  
2.2 Signal word: not required  
2.2 Hazard pictogram(s): change in the list (table)  
2.2 Hazard statements: Not required  
2.2 Safety recommendations: Not required  
15.1 Restrictions according to REACH, Annex XVII: not stated  
15.1 Restricted hazardous substances (REACH, Annex XVII): change in the list (table)

### **List of relevant sentences (code and full text as mentioned in sections 2 and 3)**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H318 Causes serious eye damage.

### **Abbreviations and acronyms**

2006/15/EC: Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC

ADN : Accord européen relatif au transport internationale des marchandises Dangereuses par voies de navigation Intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR : Accord relatif au transport internationale des marchandises Dangereuses par route (Agreement concerning the international carriage of dangerous goods by road)

ATE: Acute toxicity estimate

BOD: Biological oxygen demand

CAS: Chemical Abstracts Service (database for chemicals and their unique number, the CAS registration number)

catalogue no.: The catalogue number is the identifier used in Part 3 of Annex VI to Regulation (EC) No 1272/2008

CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures.

CMR: Carcinogenic, Mutagenic or Reproductive toxicity

CW: Ceiling value (ceiling value)

COD: Chemical Oxygen Demand

DGR: Dangerous Goods Regulations, regulations for the transport of dangerous goods, see IATA/DGR

DNEL: Derived No-Effect Level.

EC50: Effective concentration 50 %. The EC50 corresponds to the concentration of a tested substance that causes 50 % change in response (e.g. on growth) during a specified time interval

EC No: The EC register (EINECS, ELINCS and the NLP register) is the source for the seven-digit EC number as a prefix for substances (European Union)

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances

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ErC50:	≡ EC50: in this method, the concentration of a test substance at which a 50 % reduction in growth (EbC50) or growth rate (ErC50) occurs relative to the control
GHS:	"Globally Harmonised System of Classification and Labelling of Chemicals", developed by the United Nations
IATA:	International Air Transport Association
IATA/DGR:	Dangerous Goods Regulations (DGR) for aviation (IATA)
ICAO:	International Civil Aviation Organisation.
IMDG:	International Maritime Dangerous Goods Code (IMDG code)
IOELV:	Indicative occupational exposure limit value
LD50:	Lethal dose 50 %: the LD50 corresponds to the dose of a tested substance at which 50 % of the test subjects die 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 (Regulations concerning the international carriage of dangerous goods by rail)
SC-SZW:	Government Gazette: Regulation of the Minister of Social Affairs and Employment amending the Working Conditions Regulation
SVHC:	Substance of very high concern
TGG 15 min:	Short-time value
TGG 8 hours:	Time weighted average
VOCS:	Volatile organic compounds
vPvB:	Very persistent and very bioaccumulative

#### Key literature references and data sources:

Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures.  
Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU.  
Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN).  
International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).

#### Rejection of liability

This information is based on the current state of our knowledge. This ViB has been compiled and is exclusively intended for this product.