

# Alkaline phosphatase ≥2 000 Glycin U/mg protein (approx. 6000 DEA U/mg protein)

article number: **6024**Version: **2.0 on**Revision: 03.03.2021

Version: **2.0 en**Revision: 03.03.2024
Replaces version of: 21.09.2021

Version: (1)

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

#### 1.1 Product identifier

Identification of the substance Alkaline phosphatase ≥2 000 Glycin U/mg pro-

tein (approx. 6000 DEA U/mg protein)

Article number 6024

EC number 232-631-4 CAS number 9001-78-9

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for private purposes (household).

Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

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

Germany

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

sheet:

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

1.4 Emergency telephone number

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 Label elements

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

not required

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#### 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 Alkaline phosphatase

Molar mass  $\sim 120.000 \, {}^{9}/_{mol}$ 

CAS No 9001-78-9 EC No 232-631-4 Purity 1 – 2 %

## Impurities and additives:

Name of substance	Identifier	Wt%
Glycerine	CAS No 56-81-5	50
	EC No 200-289-5	
TRIS-HCI	CAS No 1185-53-1	< 0,1
	EC No 214-684-5	
Zinc chloride	CAS No 7646-85-7	< 0,1
	EC No 231-592-0	
	Index No 030-003-00-2	
Magnesium chloride	CAS No 7786-30-3	< 0,1
	EC No 232-094-6	

#### **Remarks**

For full text of abbreviations: see SECTION 16

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

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### Following inhalation

Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes.

### **Following ingestion**

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

#### 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, 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

Combustible.

#### **Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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## **SECTION 6: Accidental release measures**

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



#### For non-emergency personnel

No special measures are necessary.

## 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains.

#### 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

No special measures are necessary.

## Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool place.

#### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 2 - 8 °C

#### 7.3 Specific end use(s)

No information available.

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

#### 8.1 Control parameters

#### **National limit values**

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

This information is not available.

## **Relevant DNELs of components**

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Glycerine	56-81-5	DNEL	220 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects
Zinc chloride	7646-85-7	DNEL	1 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Zinc chloride	7646-85-7	DNEL	8,3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
TRIS-HCI	1185-53-1	DNEL	152,8 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
TRIS-HCI	1185-53-1	DNEL	216,6 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

## **Relevant PNECs of components**

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Glycerine	56-81-5	PNEC	1.000 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Magnesium chlor- ide	7786-30-3	PNEC	1,6 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Magnesium chlor- ide	7786-30-3	PNEC	0,16 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
Magnesium chlor- ide	7786-30-3	PNEC	42 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Magnesium chlor- ide	7786-30-3	PNEC	1.050 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Magnesium chlor- ide	7786-30-3	PNEC	105 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Magnesium chlor- ide	7786-30-3	PNEC	1.045 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)
Zinc chloride	7646-85-7	PNEC	117,8 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Zinc chloride	7646-85-7	PNEC	56,5 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Zinc chloride	7646-85-7	PNEC	35,6 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

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#### **Relevant PNECs of components**

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Zinc chloride	7646-85-7	PNEC	6,1 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
Zinc chloride	7646-85-7	PNEC	20,6 <sup>µg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Zinc chloride	7646-85-7	PNEC	100 <sup>µg</sup> / <sub>I</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)

## 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.

#### 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.

## **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 liquid

Colour clear - light beige

Odour odourless

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling not determined

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit not determined

Flash point not determined

Auto-ignition temperature not determined

Decomposition temperature not relevant

pH (value) not determined

Kinematic viscosity not determined

Solubility(ies)

Water solubility not determined

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure not determined

Density and/or relative density

Density  $1,1 \text{ g/}_{\text{cm}^3}$ 

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 acc. to GHS classes: hazards): not relevant

Other safety characteristics: There is no additional information.

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# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

#### 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)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### **Acute toxicity**

Shall not be classified as acutely toxic.

## **Acute toxicity of components**

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Glycerine	56-81-5	dermal	LD50	>10.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
Glycerine	56-81-5	oral	LD50	27.200 <sup>mg</sup> / <sub>kg</sub>	rat
Glycerine	56-81-5	inhalation: dust/mist	LC50	>5.850 <sup>mg</sup> / <sub>m³</sub> / 4h	rat
Magnesium chloride	7786-30-3	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat
Magnesium chloride	7786-30-3	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat
Zinc chloride	7646-85-7	oral	LD50	1.100 <sup>mg</sup> / <sub>kg</sub>	rat
Zinc chloride	7646-85-7	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat
TRIS-HCI	1185-53-1	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat
TRIS-HCI	1185-53-1	dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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## Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

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

#### If swallowed

Data are not available.

### • If in eyes

Data are not available.

### • If inhaled

Data are not available.

#### • If on skin

Data are not available.

#### Other information

Health effects are not known.

#### 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.

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48 h

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# **SECTION 12: Ecological information**

## 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

1185-53-1

Aquatic toxicity (acute) of components						
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time	
Glycerine	56-81-5	LC50	54.000 <sup>mg</sup> / <sub>l</sub>	fish	96 h	
Magnesium chloride	7786-30-3	LC50	541 <sup>mg</sup> / <sub>l</sub>	fish	96 h	
Zinc chloride	7646-85-7	LC50	168 <sup>µg</sup> / <sub>l</sub>	fish	96 h	
Zinc chloride	7646-85-7	EC50	360 <sup>µg</sup> / <sub>I</sub>	aquatic invertebrates	48 h	
TRIS-HCI	1185-53-1	LC50	460 <sup>mg</sup> / <sub>l</sub>	fish	96 h	
TRIS-HCI	1185-53-1	EC50	>117 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h	

473 mg/<sub>I</sub>

algae

#### Aquatic toxicity (chronic) of components Name of sub-**CAS No Endpoint Value Species Exposure** stance time Magnesium chloride 7786-30-3 ErC50 >100 <sup>mg</sup>/<sub>l</sub> algae Magnesium chloride 7786-30-3 EC50 >900 <sup>mg</sup>/<sub>I</sub> microorganisms 3 h Zinc chloride 7646-85-7 330 <sup>µg</sup>/<sub>I</sub> 95 h LC50 fish 5,2 <sup>mg</sup>/<sub>l</sub> Zinc chloride EC50 7646-85-7 microorganisms 3 h TRIS-HCI 1185-53-1 EC50 >1.000 <sup>mg</sup>/<sub>I</sub> 3 h microorganisms

ErC50

#### 12.2 Persistence and degradability

TRIS-HCI

Degradabilit	Degradability of components					
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Glycerine	56-81-5	biotic/abiotic	63 %	14 d		
TRIS-HCI	1185-53-1	biotic/abiotic	89 %	28 d	OECD-301D	
TRIS-HCI	1185-53-1	oxygen deple- tion	100,7 %	28 d		ECHA
TRIS-HCI	1185-53-1	carbon dioxide generation	65,9 %	28 d		ECHA
TRIS-HCI	1185-53-1	DOC removal	97,1 %	28 d		ECHA

## 12.3 Bioaccumulative potential

Data are not available.

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## **Bioaccumulative potential of components**

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Glycerine	56-81-5		-1,75 (pH value: 7,4, 25 °C)	
Zinc chloride	7646-85-7	96,05		
TRIS-HCI	1185-53-1		-3,6 (20 °C)	

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

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

#### 12.7 Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

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.

#### 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.

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# **SECTION 14: Transport information**

**14.1 UN number or ID number** not subject to transport regulations

**14.2 UN proper shipping name** not assigned

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not assigned

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

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

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

# **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.

#### **Seveso Directive**

2012/18/EU (Seveso III)						
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes			
	not assigned					

#### **Deco-Paint Directive**

VOC content	100 %
100000000	

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

VOC content	100 %

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

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

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)

Regulation on persistent organic pollutants (POP)

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
CN	IECSC	substance is listed
EU	ECSI	substance is listed
KR	KECI	substance is listed
NZ	NZIoC	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

ECSI IECSC

EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China

Korea Existing Chemicals Inventory
National Chemical Inventory
New Zealand Inventory of Chemicals
Taiwan Chemical Substance Inventory KECI NCI NZIoC Toxic Substance Control Act

#### 15.2 Chemical safety assessment

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 has been registered in quantities of 10 tonnes or more per year per registrant.

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# **SECTION 16: Other information**

## Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information:  Not subject to ADR, RID and ADN.		yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: No Chemical Safety Assessment has been car- ried out for this substance.	Chemical safety assessment: 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 has been registered in quantities of 10 tonnes or more per year per registrant.	yes

#### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concer ing the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substance
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causir 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an idea fier 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
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
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United N tions
IATA	International Air Transport Association

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Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	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 a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substance of Very High Concern
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). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **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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