according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: **7316**Version: **2.0 en**date of compilation: 2016-03-30
Revision: 2017-02-06

Replaces version of: 2016-03-30

Version: (1.0)

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

#### 1.1 Product identifier

Identification of the substance Zinc sulphate heptahydrate

Article number 7316

Registration number (REACH) 01-2119474684-27

 Index No
 030-006-00-9

 EC number
 231-793-3

 CAS number
 7446-20-0

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

**Identified uses:** laboratory chemical

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

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

**Telephone:** +49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149

**e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

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

sheet

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

1.4 Emergency telephone number

Emergency information service Poison Centre Munich: +49/(0)89 19240

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

#### 2.1 Classification of the substance or mixture

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

# Classification acc. to GHS

Section	Hazard class	Hazard class and cat- egory	Hazard state- ment
3.10	acute toxicity (oral)	(Acute Tox. 4)	H302
3.3	serious eye damage/eye irritation	(Eye Dam. 1)	H318
4.1A	hazardous to the aquatic environment - acute hazard	(Aquatic Acute 1)	H400
4.1C	hazardous to the aquatic environment - chronic hazard	(Aquatic Chronic 1)	H410

United Kingdom (en) Page 1 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

#### Remarks

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

#### 2.2 Label elements

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

#### Signal word Danger

#### **Pictograms**







#### **Hazard statements**

H302 Harmful if swallowed. H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

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

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

P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.

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

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

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger** 

Symbol(s)







H318 Causes serious eye damage.

P280 Wear protective gloves/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### 2.3 Other hazards

There is no additional information.

United Kingdom (en) Page 2 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

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

#### 3.1 Substances

Name of substance Zinc sulphate heptahydrate

Index No 030-006-00-9

Registration number (REACH) 01-2119474684-27

EC number 231-793-3 CAS number 7446-20-0 Molecular formula  $2nSO_4*7H_2O$  Molar mass 287,5 9/mol

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

## 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### Following inhalation

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

#### **Following skin contact**

Rinse skin with water/shower.

#### 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.

### **Following ingestion**

Rinse mouth immediately and drink plenty of water. Call a doctor.

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

Irritation, Corrosion, Abdominal pain, Vomiting, Diarrhoea, Circulatory collapse, Cardiac arrhythmias, Risk of serious damage to eyes

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

none

United Kingdom (en) Page 3 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

#### 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: sulphur oxides (SOx)

### 5.3 Advice for firefighters

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.

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

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

#### For non-emergency personnel

Do not breathe dust. Avoid contact with eyes.

### 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

#### Advices on how to contain a spill

Covering of drains.

#### Advices 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.

United Kingdom (en) Page 4 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

# SECTION 7: Handling and storage

#### **Precautions for safe handling**

Avoid dust formation.

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

Removal of dust deposits.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work.

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

Keep container tightly closed. Store in a dry place.

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

Observe hints for combined storage.

#### Consideration of other advice

#### Ventilation requirements

Use local and general ventilation.

### • Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

#### Specific end use(s) 7.3

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	Notation	Identifier	TWA [mg/m³]	STEL [mg/m³]	Source
GB	dust	i	WEL	10		EH40/2005
GB	dust	r	WEL	4		EH40/2005

#### **Notation**

Inhalable fraction Respirable fraction

STEL 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

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average

#### Relevant DNELs/DMELs/PNECs and other threshold levels

#### human health values

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	8,3 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
DNEL	1 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

United Kingdom (en) Page 5 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

#### environmental values

Endpoint	Threshold level	Environmental compartment	Exposure time
PNEC	56,5 <sup>mg</sup> / <sub>cm³</sub>	marine sediment	intermittent release
PNEC	0,006 <sup>mg</sup> / <sub>cm³</sub>	marine water	intermittent release
PNEC	117,8 <sup>mg</sup> / <sub>cm³</sub>	freshwater sediment	intermittent release
PNEC	0,0206 <sup>mg</sup> / <sub>cm³</sub>	freshwater	intermittent release
PNEC	0,052 <sup>mg</sup> / <sub>cm³</sub>	sewage treatment plant (STP)	intermittent release
PNEC	35,6 <sup>mg</sup> / <sub>cm³</sub>	soil	intermittent release

### 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. 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.

#### · 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). P2 (filters at least 94 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

United Kingdom (en) Page 6 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

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

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state solid (crystalline)

Colour white

Odour odourless

Odour threshold No data available

Other physical and chemical parameters

pH (value) 4 - 6 (50 <sup>g</sup>/<sub>l</sub>, 20 °C)

Melting point/freezing point 100 °C

Initial boiling point and boiling range This information is not available.

Flash point not applicable

Evaporation rate no data available

Flammability (solid, gas)

These information are not available

**Explosive limits** 

lower explosion limit (LEL)
 upper explosion limit (UEL)
 this information is not available
 Explosion limits of dust clouds
 these information are not available
 Vapour pressure
 This information is not available.

Density  $1,97 \, {}^{\text{g}}/{}_{\text{cm}^3}$  at 20  ${}^{\circ}\text{C}$ 

Vapour density This information is not available.

Bulk density  $800 - 1.000 \, \text{kg/m}^3$ 

Relative density Information on this property is not available.

Solubility(ies)

Water solubility  $\sim 965 \, {}^{9}/_{1}$  at 20  $^{\circ}$ C

Partition coefficient

n-octanol/water (log KOW) This information is not available.

Auto-ignition temperature Information on this property is not available.

Decomposition temperature no data available

Viscosity not relevant (solid matter)

Explosive properties Shall not be classified as explosive

Oxidising properties none

United Kingdom (en) Page 7 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

#### 9.2 Other information

There is no additional information.

# **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

Keep away from heat.

#### 10.5 Incompatible materials

metals

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Exposure route	Endpoint	Value	Species	Source
oral	LD50	1.260 <sup>mg</sup> / <sub>kg</sub>	rat	TOXNET

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor 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.

United Kingdom (en) Page 8 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

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

#### If swallowed

severe abdominal pain, vomiting, diarrhoea

#### • If in eyes

strongly irritant, Causes serious eye damage, risk of blindness

#### • If inhaled

Irritation to respiratory tract, breathing difficulties, oedema

#### • If on skin

causes slight to moderate irritation

#### Other information

Other adverse effects: Circulatory collapse, Cardiac arrhythmias

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

### **Aquatic toxicity (acute)**

Very toxic to aquatic organisms.

Endpoint	Value	Species	Source	Exposure time
LC50	0,1 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	ECOTOX Database	96 h

### **Aquatic toxicity (chronic)**

May cause long-term adverse effects in the aquatic environment.

### 12.2 Process of degradability

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

### 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 Other adverse effects

Data are not available.

United Kingdom (en) Page 9 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

# **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.

#### 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	3077	
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
	Hazardous ingredients	Zinc sulphate heptahydrate	
14.3	Transport hazard class(es)		
	Class	9 (miscellaneous dangerous substances and articles) (environmentally hazardous)	

**14.4** Packing group III (substance presenting low danger)

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

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

# • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.

Particulars in the transport document UN3077, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, SOLID, N.O.S., (Zinc sulphate heptahy-

drate), 9, III, (-)

Class 9
Classification code M7
Packing group III

Danger label(s) 9 + "fish and tree"

United Kingdom (en) Page 10 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316



**Emergency Action Code** 

**Environmental hazards** yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1 Limited quantities (LQ) 5 kg Transport category (TC) 3 Tunnel restriction code (TRC) Hazard identification No 90

• International Maritime Dangerous Goods Code (IMDG)

**UN** number 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

2Z

SOLID, N.O.S.

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Zinc sulphate heptahy-Particulars in the shipper's declaration

drate), 9, III

Class

Marine pollutant yes (hazardous to the aquatic environment)

Packing group

9 + "fish and tree" Danger label(s)



**UN** number

Special provisions (SP) 274, 335, 966, 967, 969

E1 Excepted quantities (EQ) Limited quantities (LQ) 5 kg **EmS** F-A, S-F

Stowage category

International Civil Aviation Organization (ICAO-IATA/DGR)

Proper shipping name Environmentally hazardous substance, solid,

n.o.s.

3077

Particulars in the shipper's declaration UN3077, Environmentally hazardous substance,

solid, n.o.s., (Zinc sulphate heptahydrate), 9, III

Class

**Environmental hazards** yes (hazardous to the aquatic environment)

III Packing group

United Kingdom (en) Page 11 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

9 + "fish and tree"



Special provisions (SP) A97, A158, A179, A197, 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 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)
  - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) Not listed.
  - Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS) Not listed.
  - Regulation 850/2004/EC on persistent organic pollutants (POP) Not listed.
  - List of substances subject to authorisation (REACH, Annex XIV)
  - Seveso Directive

not listed

2012/	2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (t plication of lower ar quireme	ាd upper-tier re-ំ	Notes	
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100	200	56)	

#### Notation

56) Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

not listed

United Kingdom (en) Page 12 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



## Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

#### **National inventories**

Substance is listed in the following national inventories:

- EINECS/ELINCS/NLP (Europe)
- REACH (Europe)

### 15.2 Chemical Safety Assessment

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

# **SECTION 16: Other information**

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

Section	Former entry (text/value)	Actual entry (text/value)
8.1		environmental values: change in the listing (table)
14.8	Particulars in the transport document: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (zinc sulphate (anhydrous)), 9, III, (E)	Particulars in the transport document: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (Zinc sulphate heptahydrate), 9, III, (-)
14.8	Special provisions (SP): 274, 335, 601	Special provisions (SP): 274, 335, 375, 601
14.8	Tunnel restriction code (TRC):	Tunnel restriction code (TRC):
14.8	Particulars in the shipper's declaration: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (zinc sulphate (anhydrous)), 9, III	Particulars in the shipper's declaration: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (Zinc sulphate heptahydrate), 9, III
14.8		International Civil Aviation Organization (ICAO- IATA/DGR)
14.8		UN number: 3077
14.8		Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
14.8		Particulars in the shipper's declaration: UN3077, Environmentally hazardous substance, solid, n.o.s., (Zinc sulphate heptahydrate), 9, III
14.8		Class: 9
14.8		Environmental hazards: yes (hazardous to the aquatic environment)
14.8		Packing group: III9 + "fish and tree"
14.8		Packing group: change in the listing (table)
14.8		Special provisions (SP): A97, A158, A179, A197, 274
14.8		Excepted quantities (EQ): E1
14.8		Limited quantities (LQ): 30 kg

United Kingdom (en) Page 13 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



# Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
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
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
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)
STEL	short-term exposure limit
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

### Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS)

United Kingdom (en) Page 14 / 15

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Zinc sulphate heptahydrate ≥97%, ekstra czysty extra pure

article number: 7316

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

Code	Text
H302	harmful if swallowed
H318	causes serious eye damage
H400	very toxic to aquatic life
H410	very toxic to aquatic life with long lasting effects

#### **Disclaimer**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

United Kingdom (en) Page 15 / 15