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

#### Mercury(II) sulphate ≥98 %, p.a., ACS

article number: **T112**Version: **3.0 en**date of compilation: 2015-10-15
Revision: 2022-07-14

Replaces version of: 2019-04-24

Version: (2)



#### 1.1 Product identifier

Identification of the substance Mercury(II) sulphate ≥98 %, p.a., ACS

Article number T112

Registration number (REACH)

It is not required to list the identified uses be-

cause the substance is not subject to registration

according to REACH (< 1 t/a).

Index number in CLP Annex VI 080-002-00-6
EC number 231-992-5
CAS number 7783-35-9

#### 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 squirting or spraying. Do not use

for products which come into contact with foodstuffs. Do not use for private purposes (house-

hold).

#### 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

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Centre Beaumont Hospital	Beaumont Road	Dublin 9	01 809 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)	Acute toxicity (oral) 2 Acute Tox. 2		H300
3.1D	Acute toxicity (dermal)	1	Acute Tox. 1	H310
3.1I	Acute toxicity (inhal.)	2	Acute Tox. 2	H330
3.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
4.1A	Hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	Hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16

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

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

#### 2.2 Label elements

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

Signal word Danger

#### **Pictograms**

GHS06, GHS08, GHS09







#### **Hazard statements**

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled

H373 May cause damage to organs (kidney) through prolonged or repeated exposure Very toxic to aquatic life with long lasting effects

#### **Precautionary statements**

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

P273 Avoid release to the environment

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P310 Immediately call a POISON CENTER/doctor

#### Precautionary statements - storage

P405 Store locked up

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

Signal word: Danger

Symbol(s)







H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

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

#### 3.1 Substances

Name of substance Mercury(II) sulphate

Molecular formula HgSO<sub>4</sub>

Molar mass296,7 g/molCAS No7783-35-9EC No231-992-5Index No080-002-00-6

Substance, Specific Conc. Limits, M-factors, ATE

Specific Conc. Limits	M-Factors	ATE	Exposure route
STOT RE 2; H373: C ≥ 0,1 %	M-factor (acute) = 100	5 <sup>mg</sup> / <sub>kg</sub> 5 <sup>mg</sup> / <sub>kg</sub> 0,05 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: dust/ mist

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

#### 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

#### Following skin contact

After contact with skin, wash immediately with plenty of water.

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#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek

#### Following ingestion

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

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

Nausea, Vomiting, Diarrhoea, Gastrointestinal complaints, Irritability, Lack of coordination, Blood pressure drop, Circulatory collapse, Cardiac arrhythmias, Renal impairment, Effects on special senses (such as sight, hearing and sense of smell), Impaired memory function

4.3 Indication of any immediate medical attention and special treatment needed

none

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

water jet

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

Non-combustible.

#### **Hazardous combustion products**

In case of fire may be liberated: Sulphur oxides (SOx), Mercury (Hg)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

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

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



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

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#### 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.

#### 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

Use extractor hood (laboratory). Handle and open container with care. Clear contaminated areas thoroughly. Measures to prevent aerosol and dust generation.

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

Removal of dust deposits.

#### 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. Keep container tightly closed. May cause decomposition by long-term light influence.

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

Observe hints for combined storage.

#### Protect against external exposure, such as

direct light irradiation, UV-radiation/sunlight

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

Store locked up.

#### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

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## SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

#### **National limit values**

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

Coun	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
IE	dusts non-specific		OELV	10			i	S.I. No. 619 of 2001
IE	dusts non-specific		OELV	4			r	S.I. No. 619 of 2001

**Notation** 

Ceiling-C Ceiling value is a limit value above which exposure should not occur

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

#### 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

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>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). Type: Hg-P3 (combined filters against mercury vapour and particles, colour code: Red/White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

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

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

Physical state solid
Colour white

Odour odourless

Melting point/freezing point 349,8 °C (ECHA) Boiling point or initial boiling point and boiling 616 °C (ECHA)

range

Flammability non-combustible
Lower and upper explosion limit not determined
Flash point not applicable
Auto-ignition temperature not determined

Decomposition temperature >350 °C

pH (value) <2 (in aqueous solution: 50 <sup>g</sup>/<sub>l</sub>, 20 °C)

Kinematic viscosity not relevant

Solubility(ies)

Water solubility 1,6 <sup>g</sup>/<sub>l</sub> at 25 °C (slow decomposition) (ECHA)

Partition coefficient

Partition coefficient n-octanol/water (log value): -0,07 (25 °C) (ECHA)

Vapour pressure not determined

Density and/or relative density

Density  $6,47 \, {}^{9}/_{\text{cm}^{3}}$  (ECHA)

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Relative vapour density information on this property is not available

Bulk density  $\sim 670 \, \mathrm{kg/m^3}$ 

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

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

Other safety characteristics: 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

May cause decomposition by long-term light influence.

#### 10.3 Possibility of hazardous reactions

Violent reaction with: Halogenated hydrocarbons, Strong alkali

#### 10.4 Conditions to avoid

Direct light irradiation. UV-radiation/sunlight. Keep away from heat. Decompostion takes place from temperatures above: >350 °C.

#### 10.5 Incompatible materials

Light metals

#### 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. Fatal if inhaled.

Acute toxicity								
Exposure route	Endpoint	Value	Species	Method	Source			
oral	LD50	57 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA			
dermal	LD50	625 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA			

#### 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

May cause damage to organs (kidney) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	kidney	if exposed

#### **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

irritant effects, risk of absorption via the skin

#### Other information

Other adverse effects: Central nervous system, Liver and kidney damage, Nausea, Vomiting, Abdominal pain, Diarrhoea, Circulatory collapse, Blood pressure drop, Cardiac arrhythmias, Agitation, Irritability, Effects on special senses (such as sight, hearing and sense of smell), Impaired memory function

#### 11.2 Endocrine disrupting properties

Not listed.

#### 11.3 Information on other hazards

There is no additional information.

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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

#### **Biodegradation**

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

#### 12.2 Process of degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	-0,07 (25 °C) (ECHA)
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#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Not listed.

#### 12.7 Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



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

#### Sewage disposal-relevant information

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

#### Waste treatment of containers/packagings

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

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

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

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## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADRRID UN 1645 IMDG-Code UN 1645 ICAO-TI UN 1645

#### 14.2 UN proper shipping name

ADRRID MERCURY SULPHATE IMDG-Code MERCURY SULPHATE ICAO-TI Mercury sulphate

#### 14.3 Transport hazard class(es)

ADRRID 6.1 IMDG-Code 6.1 ICAO-TI 6.1

#### 14.4 Packing group

ADRRID II
IMDG-Code II
ICAO-TI II

#### **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.

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

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

Proper shipping name MERCURY SULPHATE

Particulars in the transport document UN1645, MERCURY SULPHATE, 6.1, II, (D/E), envir-

onmentally hazardous

Classification code T5

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

Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 802(ADN)

Excepted quantities (EQ) E4
Limited quantities (LQ) 500 q

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Transport category (TC) 2

Tunnel restriction code (TRC) D/E

Hazard identification No 60

Hazard identification No 6

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

information

Classification code T5

Danger label(s) 6.1

Fish and tree

Environmental hazards Yes

Hazardous to water

Special provisions (SP) 802(ADN)

Excepted quantities (EQ) E4
Limited quantities (LQ) 500 g
Transport category (TC) 2
Hazard identification No 60

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name MERCURY SULPHATE

Particulars in the shipper's declaration UN1645, MERCURY SULPHATE, 6.1, II, MARINE

**POLLUTANT** 

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

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

¥2>

Special provisions (SP)

Excepted quantities (EQ) E4
Limited quantities (LQ) 500 g
EmS F-A, S-A

Stowage category A

**Segregation group** 7 - Heavy metals and their salts

11 - Mercury and mercury compounds

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

Proper shipping name Mercury sulphate

Particulars in the shipper's declaration UN1645, Mercury sulphate, 6.1, II

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 6.1



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Excepted quantities (EQ) E4 Limited quantities (LQ) 1 kg

## **SECTION 15: Regulatory information**

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

#### Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	CAS No	Restriction	No
Mercury(II) sulphate	mercury compounds		R18	18

#### Legend

- Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended
- (a) to prevent the fouling by micro-organisms, plants or animals of:
- the hulls of boats,
   cages, floats, nets and any other appliances or equipment used for fish or shellfish farming,
   any totally or partly submerged appliances or equipment;
- (b) in the preservation of wood;
- (c) in the impregnation of heavy-duty industrial textiles and yarn intended for their manufacture; (d) in the treatment of industrial waters, irrespective of their use.

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

Not listed.

#### **Seveso Directive**

2012/	2012/18/EU (Seveso III)							
No	Dangerous substance/hazard categories		(tonnes) for the ap- and upper-tier re- ments	Notes				
H1	acute toxic (cat. 1)	5	20	40)				

#### **Notation**

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

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

VOC content	0 %
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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

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Category 1, all exposure routes

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#### **Water Framework Directive (WFD)**

#### List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Mercury(II) sulphate	mercury compounds		b)	HAZ
Mercury(II) sulphate	mercury compounds	7439-97-6	c)	
Mercury(II) sulphate	Metals and their compounds		a)	

#### Legend

A) B) C) HAZ Indicative list of the main pollutants

List of priority substances in the field of water policy Environmental Quality Standards for Priority Substances and certain other pollutants Identified as priority hazardous substance

#### 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	Category / subcategory	Use limita- tion
Mercury(II) sulphate	mercury(II) sulfate	7783-35-9		

#### 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
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed

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Country	Inventory	Status
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AIIC CSCL-ENCS DSL ECSI IECSC

Australian Inventory of Industrial Chemicals
List of Existing and New Chemical Substances (CSCL-ENCS)
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

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

Toxic Substance Control Act

#### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

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

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

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1		The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning 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)

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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 ide fier of substances commercially available within the EU (European Union)  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 I tions  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  LD50 Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during specified time interval  M-factor Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to aquatic environment acute category 1 or chronic category 1, and is used to derive by the summatic method the classification of a mixture in which the substance is present  NLP No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals	Abbr.	Descriptions of used abbreviations
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 ide fier of substances commercially available within the EU (European Union)  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 Itions  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  LD50 Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality durit specified time interval  M-factor Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to aquatic environment acute category 1 or chronic category 1, and is used to derive by the summatic method the classification of a mixture in which the substance is present  NLP No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  Reglement concernant le transport International ferrovaire des marchandises Dangereuses (Regul tions concerning the International carriage of Dangerous goods by Rail)  S.I. No. 619 of Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001	Ceiling-C	Ceiling value
EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an ide fier of substances commercially available within the EU (European Union)  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 I tions  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  LD50 Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during specified time interval  M-factor Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to aquatic environment acute category 1 or chronic category 1, and is used to derive by the summatic method the classification of a mixture in which the substance is present  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 (Regulations concerning the International carriage of Dangerous goods by Rail)  S.I. No. 619 of Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001	CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
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 Itions  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  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  LD50 Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during specified time interval  M-factor Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to aquatic environment acute category 1 or chronic category 1, and is used to derive by the summatic method the classification of a mixture in which the substance is present  NLP No-Longer Polymer  PBT Persistent, Bioaccumulative and Toxic  REACH Registration, Evaluation, Authorisation and Restriction of Chemicals  RID Règlement concernant le transport International carriage of Dangerous goods by Rail)  S.I. No. 619 of Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001	DGR	Dangerous Goods Regulations (see IATA/DGR)
ELINCS  EmS  Emergency Schedule  GHS  "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Itions  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  LD50  Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during specified time interval  M-factor  Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present  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 (Regulations concerning the International carriage of Dangerous goods by Rail)  S.I. No. 619 of  Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001	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)
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	RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
		Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
STEL Short-term exposure limit	STEL	Short-term exposure limit
SVHC Substance of Very High Concern	SVHC	Substance of Very High Concern
TWA Time-weighted average	TWA	Time-weighted average
VOC Volatile Organic Compounds	VOC	Volatile Organic Compounds
vPvB Very Persistent and very Bioaccumulative	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).

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



## Mercury(II) sulphate ≥98 %, p.a., ACS

article number: T112

#### 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.
H330	Fatal if inhaled.
H373	May cause damage to organs (kidney) through prolonged or repeated exposure.
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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