

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

# Antimony(V) sulfide

Version number: GHS 1.0 Date of compilation: 2023-01-23 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 **Product identifier** Identification of the substance Antimony(V) sulfide CAS number 1315-04-4 Article number A0005779 Relevant identified uses of the substance or mixture and uses advised against 1.2 Relevant identified uses General use 1.3 Details of the supplier of the safety data sheet Chemos GmbH & Co. KG Sonnenring 7 84032 Altdorf Germany Telephone: +49 871-966346-0 Telefax: +49 871-966346-13 e-mail: chemos@chemos.de Website: http://www.chemos.de/ e-mail (competent person) chemos@chemos.de 1.4 **Emergency telephone number Emergency information service** +49 89 1 92 40 

Poison centre						
Country	Name	Postal code/ city	Telephone	Telefax		
United Kingdom	National Poison Information Centre Medical Toxicology Unit	SE14 5ER Lon- don	+44 171 635 91 91			

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
2.7	flammable solid	1	Flam. Sol. 1	H228
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302
3.1I	3.1I acute toxicity (inhal.)		Acute Tox. 4	H332
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

Labelling



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Version number: GHS 1.0 Date of compilation: 2023-01-23 - Signal word danger - Pictograms GHS02, GHS07, GHS09 - Hazard statements H228 Flammable solid. H302+H332 Harmful if swallowed or if inhaled. H411 Toxic to aquatic life with long lasting effects. - Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P312 Call a POISON CENTRE/doctor if you feel unwell. P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. P391 Collect spillage. P501 Dispose of contents/container to industrial combustion plant.

# 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

Sussifia Cours Limits		ATE	
CAS No	1315-04-4		
Identifiers			
Name of substance	Antimony(V) su	lfide	

Specific Conc. Limits	M-Factors	ΑΤΕ	Exposure route
-	-	500 <sup>mg</sup> / <sub>kg</sub> 1.5 <sup>mg</sup> / <sub>l</sub> /4h	oral inhalation: dust/mist

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.



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#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

**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 Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

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

Deposited combustible dust has considerable explosion potential.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

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

For non-emergency personnel Remove persons to safety.

For emergency responders Wear breathing apparatus if exposed to vapours/dust/spray/gases.

# 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.



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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

#### Recommendations

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

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

#### - Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

#### - Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### - 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.

#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

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

#### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
GB	dust		WEL		10					i	EH40/ 2005
GB	dust		WEL		4					r	EH40/ 2005

Notation

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

 i
 inhalable fraction

 r
 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 (unless otherwise specified)



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# 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

Particulate filter device (EN 143).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. 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	yellow-orange
Odour	odourless
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	flammable solid in accordance with GHS criteria
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility(ies)	not determined



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Partition coefficient		
Partition coefficient n-octanol/water (log value)	not relevant (inorganic)	

	<b>-</b>		

Vapour pressure	not determined
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### Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	no data available			
Other information				
Information with regard to physical hazard classes	there is no additional information			
Other safety characteristics				
Solid content	100 %			

# SECTION 10: Stability and reactivity

#### 10.1 Reactivity

9.2

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

#### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.



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# SECTION 11: Toxicological information

11.1 Information on toxicological effects

# **Classification acc. to GHS**

### Acute toxicity

Harmful if swallowed. Harmful if inhaled.

- Acute toxicity estimate (ATE) Oral 500 <sup>mg</sup>/<sub>kg</sub> Inhalation: dust/mist 1.5 <sup>mg</sup>/<sub>l</sub>/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

## Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity Shall not be classified as a reproductive toxicant.

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.

#### 11.2 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Data are not available.

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.



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#### 12.6 Endocrine disrupting properties

Information on this property is not available.

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

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. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

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

SECT	ION 14: Transport information	
14.1	UN number or ID number	
	ADR/RID	UN 3178
	IMDG-Code	UN 3178
	ICAO-TI	UN 3178
14.2	UN proper shipping name	
	ADR/RID	FLAMMABLE SOLID, INORGANIC, N.O.S.
	IMDG-Code	FLAMMABLE SOLID, INORGANIC, N.O.S.
	ICAO-TI	Flammable solid, inorganic, n.o.s.
	Technical name	Antimony(V) sulfide
14.3	Transport hazard class(es)	
	ADR/RID	4.1
	IMDG-Code	4.1
	ICAO-TI	4.1
14.4	Packing group	
	ADR/RID	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.



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# 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Informati	on for each of the UN Model R	egulations	
	nt concerning the Internation l information	al Carriage of Dangerous Goods by Road (	ADR) -
Classificati	ion codo	ГЭ	

Classification code	F3	
Danger label(s)	4.1, fish and tree	
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)	
Special provisions (SP)	274	
Excepted quantities (EQ)	E2	
Limited quantities (LQ)	1 kg	
Transport category (TC)	2	
Tunnel restriction code (TRC)	E	
Hazard identification No	40	
Emergency Action Code	1Z	

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

Classification code	F3
Danger label(s)	4.1, fish and tree
• •	



<b>YES</b> (hazardous to water)
274
E2
1 kg
2
40
IMDG) - Additional information
<b>Yes</b> (hazardous to the aquatic environment)
4.1, fish and tree
274
E2

1 kg

В

F-A, S-G

EmS

Limited quantities (LQ)

Stowage category



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International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information		
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)	
Danger label(s)	4.1	
Special provisions (SP)	A3	
Excepted quantities (EQ)	E2	
Limited quantities (LQ)	5 kg	

# **SECTION 15: Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 **Relevant provisions of the European Union (EU)** 

Deco-Paint Directive		
VOC content	0 %	
Industrial Emissions Directive (IED)		
VOC content	0 %	

## National regulations (GB)

# List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

# **Restrictions according to GB REACH, Annex 17**

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance Name acc. to inventory CAS No No			
Antimony(V) sulfide	flammable / pyrophoric		40

# National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	NDSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed as "ACTIVE"



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Legend	
AIIC	Australian Inventory of Industrial Chemicals
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
KECI	Korea Existing Chemicals Inventory
NDSL	Non-domestic Substances List (NDSL)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

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

# **SECTION 16: Other information**

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- 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
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)



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

#### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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

Code	Text
H228	Flammable solid.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H411	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.