

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

## Lead, dross, antimony-rich

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

#### 1.1. Product identifier

**Trade name**

Lead, dross, antimony-rich

**Name of the chemical**

Lead, dross, antimony-rich (Blydross, antimonrik)

**CAS number**

69029-45-4

**EC number**

273-791-5

**REACH registration number**

01-2119510714-47-XXXX

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

**Relevant identified uses**

Intermediates

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

**Supplier**

Boliden Commercial

## Address

Box 750

10135 Stockholm

Sweden

## Telephone

+46 8 610 15 00

## Email

info.market@boliden.com

#### 1.4. Emergency telephone number

In urgent situations: Call 112 and request the poison information centre. In less severe situations: Call +46104566750.

**Available outside office hours**

Yes

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## Lead, dross, antimony-rich

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

##### Classification

Serious eye damage, hazard category 1

Carcinogenicity, hazard category 1A

Hazardous to the aquatic environment — Acute hazard category 1

Hazardous to the aquatic environment — Chronic hazard category 1

Skin irritation, hazard category 2

Reproductive toxicity, hazard category 1A

Specific Target Organ Toxicity — Repeated exposure, hazard category 1

Acute toxicity, oral, hazard category 3

Acute toxicity, inhalation, hazard category 4

##### Hazard statements

H301, H315, H318, H332, H350, H360FD, H372, H400, H410

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

##### Hazard pictograms



##### Signal word

Danger

##### Hazard statements

H301 Toxic if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H350 May cause cancer.

H360FD May damage fertility. May damage the unborn child

H372 Causes damage to organs through prolonged or repeated exposure (Central nervous system, Blood, Kidney).

H410 Very toxic to aquatic life with long lasting effects.

##### Supplemental hazard statements

EUH208 Contains sensitising substance(s). May produce an allergic reaction.

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### Precautionary statements

- P201 Obtain special instructions before use.
- P264 Wash hands and exposed skin thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P391 Collect spillage.

### 2.3. Other hazards

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This mixture/product does not contain any substances considered to have endocrine disrupting properties.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Lead, dross, antimony-rich	69029-45-4 273-791-5 01-2119510714-47-XXXX -	95 - 100%	Acute Tox. 3 - oral, Skin Irrit. 2, Eye Dam. 1, Acute Tox. 4 - inhalation, Carc. 1A, Repr. 1A, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1	H301, H315, H318, H332, H350, H360FD, H372, H400, H410 M-acut=1 M-chro=1	-

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## Lead, dross, antimony-rich

### Product based on

Lead, dross, antimony-rich is a complex inorganic substance (UVCB). The constituents in the chemical product are reported in an elemental form and various components are bounded to each other and are not present as free substances.

Components: ~60% lead compounds (EC 215-267-0), ~30% antimony trioxide (EC 215-175-0), <2% arsenic (EC 231-148-6), <0,4% zinc oxide (EC 215-222-5), ~0,14% copper (II) oxide (EC 215-269-1). Arsenic is usually present in its oxide form, e.g.  $Pb_5(Sb,As)_4O_{11}$ ,  $(Sb,As)_2O_3$ ,  $As_2O_4$ ; or in the form of an alloy, e.g. CuNiSbAsSn.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

### Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Description of first aid measures

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Bring this safety data sheet. Never give anything by mouth to an unconscious person.

#### Inhalation

Call a physician or Poison Control Centre immediately. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties or respiratory arrest, artificial respiration must be given via suitable instrument/equipment. Artificial respiration via mouth-to-mouth or mouth-to-nose should not be applied. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### Skin contact

Wash with plenty of water and soap. Take off immediately all contaminated clothing. Wash the clothes before using them again. Call a physician immediately.

#### Eye contact

Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

#### Ingestion

Call a physician immediately. Rinse mouth thoroughly with water. Do not induce vomiting. Hold head facing down to prevent vomit from returning to the mouth and throat. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. If unconscious, roll the injured person into recovery position. Call an ambulance.

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## Lead, dross, antimony-rich

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

#### Inhalation

Reduced fetal weight, increased fetal mortality & skeletal malformations

#### Skin contact

Pain, irritation, redness, blisters, reduced fetal weight, increased fetal mortality & skeletal malformations

#### Eye contact

Pain, eye tearing & redness

#### Ingestion

Stomach pain, reduced fetal weight, increased fetal mortality & skeletal malformations

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

Treat symptomatically. Bring this safety data sheet.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

#### Unsuitable extinguishing media

Full water jet

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

Do not allow run-off from fire-fighting to enter drains or water courses. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Decomposition products may include the following materials:

metal oxide/oxides

Sulphur oxides

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Wear suitable protective equipment

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### SECTION 6: Accidental release measures

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

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment. Avoid direct contact with spills. Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection. Avoid dust formation.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways). Water polluting material. Large emissions can be harmful to the environment. Collect spill.

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

Prevent entry into sewers, water courses, basements or confined areas. Avoid dust formation.

#### 6.4. Reference to other sections

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

SECTION 8: Exposure controls/personal protection

SECTION 13: Disposal considerations

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Preventive handling precautions

Use personal protective equipment as required. Avoid exposure to the product. Avoid contact during pregnancy and while nursing. Avoid contact with eyes, skin or clothing. Do not handle until all safety precautions have been read and understood. Toxic if swallowed. Discharge into the environment must be avoided. In case of inadequate ventilation wear respiratory protection.

##### General hygiene

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Keep working clothes separately. Take off contaminated clothing and wash it before reuse.

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

Store in accordance with local regulations. Store in a cool dry place. Store locked up. See section 10 for incompatible materials before handling or use. Store appropriately to avoid environmental pollution.

#### 7.3. Specific end use(s)

Not available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

##### National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
Copper, and inorganic compounds (as Cu), respirable fraction	7440-50-8 -	- 0.01	AFS 2018:1/AFS 2023:14	-	2018
Lead, and inorganic compounds (as Pb), inhalable fraction	7439-92-1 231-100-4	- 0.1	AFS 2018:1/AFS 2023:14	B: The substance can cause hearing damage. M: Medical controls required. R: The substance is toxic to reproduction.	2011
Lead, and inorganic compounds (as Pb), respirable fraction	7439-92-1 231-100-4	- 0.05	AFS 2018:1/AFS 2023:14	B: The substance can cause hearing damage. M: Medical controls required. R: The substance is toxic to reproduction.	2011
Dust, inorganic, inhalable	- -	- 5	AFS 2018:1/AFS 2023:14	-	2018
Dust, inorganic, respirable	- -	- 2.5	AFS 2018:1/AFS 2023:14	-	2018
Antimony, and compounds (as Sb), except Antimony trihydride, inhalable fraction	7440-36-0 -	- 0.25	AFS 2018:1/AFS 2023:14	-	2011
Arsenic, and inorganic compounds (as As), inhalable fraction	7440-38-2 -	- 0.01	AFS 2018:1/AFS 2023:14	C: The substance is carcinogenic	2021
Zinc oxide, total dust	1314-13-2 -	- 5	AFS 2018:1/AFS	-	1974

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## Lead, dross, antimony-rich

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
			2023:14		

### DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Acute (short term) Inhalation	16 mg/m <sup>3</sup>	Workers	Systemic
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Chronic (long term) Inhalation	4 µg/m <sup>3</sup>	Workers	Local
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Acute (short term) Inhalation	470 µg/m <sup>3</sup>	Workers	Local
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Chronic (long term) Dermal	4.14 µg/kg bw/day	Workers	Systemic
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Acute (short term) Dermal	273 mg/kg bw/day	Workers	Systemic
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Chronic (long term) Dermal	440 ng/cm <sup>2</sup>	Workers	Local
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Acute (short term) Inhalation	9.6 mg/m <sup>3</sup>	Consumers	Systemic
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Chronic (long term) Inhalation	20 ng/m <sup>3</sup>	Consumers	Local
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Acute (short term) Inhalation	280 µg/m <sup>3</sup>	Consumers	Systemic
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Chronic (long term) Dermal	2.1 µg/kg bw/day	Consumers	Systemic
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Acute (short term) Dermal	273 mg/kg bw/day	Consumers	Systemic
Lead, dross, antimony-rich (69029-45-4/273-791-5)	DNEL	Chronic (long term) Dermal	70 µg/cm <sup>2</sup>	Consumers	Local

### PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Lead, dross, antimony-rich (69029-45-4/273-791-5)	PNEC	Freshwater	40 ng/L
Lead, dross, antimony-rich (69029-45-4/273-791-5)	PNEC	Intermittent releases (freshwater)	1.2 µg/l
Lead, dross, antimony-rich	PNEC	Marine water	67.2 ng/L



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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
(69029-45-4/273-791-5)			
Lead, dross, antimony-rich (69029-45-4/273-791-5)	PNEC	Sewage Treatment Plant	2.25 µg/l
Lead, dross, antimony-rich (69029-45-4/273-791-5)	PNEC	Sediment (freshwater)	1.8 mg/kg
Lead, dross, antimony-rich (69029-45-4/273-791-5)	PNEC	Sediment (marine water)	340 µg/kg
Lead, dross, antimony-rich (69029-45-4/273-791-5)	PNEC	Soil	22 µg/kg
Lead, dross, antimony-rich (69029-45-4/273-791-5)	PNEC	Predator	160 µg/kg

### 8.2. Exposure controls

#### Appropriate engineering controls

Do not breathe dust. Ensure adequate ventilation, especially in confined areas. Ensure adequate ventilation, especially in confined areas. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations are close to the workstation location. Use only in an area equipped with a safety shower.

#### Personal Protective Equipment Symbols



#### Eye / face protection

Safety glasses with side-shields conforming to EN166

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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. Suitable material: nitrile rubber

#### Other skin protection

Wear appropriate protective clothing. Change contaminated, saturated clothing.

#### Respiratory protection

In the event of dust formation or when there is a risk of inhalation, use a respirator with an approved filter. When workers are exposed to concentrations above the limit values, they must use appropriate certified respirators. Use breathing equipment with filter type P2.

#### Environmental exposure controls

Avoid release to the environment.

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**Lead, dross, antimony-rich****Other**

Use only CE-marked or locally approved protective equipment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Physical state**

Solid

**Colour**

Yellow/grey

**Odour**

Odourless

**Odour threshold**

Not available

**Melting point / freezing point**

~ 316 °C

**Boiling point or initial boiling point and boiling range**

Not available

**Flammability**

Not available

**Lower and upper explosion limit**

Not applicable

**Flash point**

No data available

**Auto-ignition temperature**

Not applicable

**Decomposition temperature**

Not available

**pH**

Not applicable

**Kinematic viscosity**

Not applicable

**Viscosity, dynamic**

Not applicable

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**Lead, dross, antimony-rich****Solubility**

Insoluble in the following materials: water

**Water solubility**

Slightly soluble in the following substances: water, 0.0001 to 0.1 g/l

**Partition coefficient n-octanol/water**

Not applicable

**Vapour pressure**

Not applicable

**Density and/or relative density**

8

**Relative vapour density**

Not applicable

**Evaporation Rate**

Not available

**Explosive properties**

Not applicable

**Oxidising properties**

Not applicable

**Particle characteristics**

No data available

**9.2. Other information**

No additional information

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions.

**10.3. Possibility of hazardous reactions**

Contact with acids liberates toxic gas. Contact with water liberates toxic gas.

**10.4. Conditions to avoid**

Keep away from heat and sources of ignition. Protect from moisture.

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**Lead, dross, antimony-rich****10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents and strong reducing agents.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous reactions will not occur.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Toxic if swallowed. Harmful if inhaled.

**Skin corrosion/irritation**

Irritating to skin.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

Non-sensitiser to skin. Not classified for respiratory sensitisation.

**Germ cell mutagenicity**

Not classified as hazardous.

**Carcinogenicity**

May cause cancer.

**Reproductive toxicity**

May damage fertility. May damage the unborn child.

**STOT-single exposure**

Not available

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure.  
(Central nervous system, Blood, Kidney)

**Aspiration hazard**

Not available

**Routes of exposure**

Oral

Dermal

Inhalation

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## Lead, dross, antimony-rich

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion. The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

### **Toxicity in case of inhalation**

Harmful if inhaled.

Inhalation may provoke the following symptoms: Reduced fetal weight, increased fetal mortality & skeletal malformations

### **Toxicity in case of skin contact**

Irritating to skin.

Skin contact may provoke the following symptoms: Pain, irritation, redness, blisters, reduced fetal weight, increased fetal mortality & skeletal malformations

### **Toxicity in case of eye contact**

Causes serious eye damage.

The following symptoms may occur: Pain, eye tearing & redness

### **Toxicity in case of ingestion**

Toxic if swallowed.

Ingestion may provoke the following symptoms: Stomach pain, reduced fetal weight, increased fetal mortality & skeletal malformations

## **11.2. Information on other hazards**

### **Endocrine disrupting properties**

This mixture/product does not contain any substances considered to have endocrine disrupting properties.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### **Acute toxicity**

Very toxic to aquatic life with long lasting effects.

### **12.2. Persistence and degradability**

Not available

### **12.3. Bioaccumulative potential**

Version number:	2.0
Issued:	2024-05-15
Replaces SDS:	2021-10-30

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Product / Substance name CAS / EC no.	Bioconcentration factor (BCF)
Zinc -	28 960

**12.4. Mobility in soil**

Not available

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**12.6. Endocrine disrupting properties**

This mixture/product does not contain any substances considered to have endocrine disrupting properties.

**12.7. Other adverse effects**

No known.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal considerations**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Waste code	Waste description
06 04 05*	wastes containing other heavy metals
10 04 05*	other particulates and dust

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

**Other**

This material must be disposed of in a safe way. Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers.

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**Lead, dross, antimony-rich**

**SECTION 14: Transport information**

**14.1. UN number**  
3288

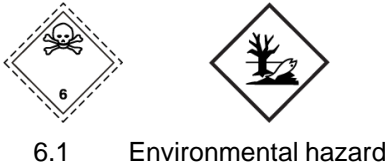
**14.2. UN proper shipping name**  
ADR / RID / ADN proper shipping name  
 TOXIC SOLID, INORGANIC, N.O.S. (Lead, dross, antimony-rich)

IMDG proper shipping name  
 TOXIC SOLID, INORGANIC, N.O.S. (Lead, dross, antimony-rich)

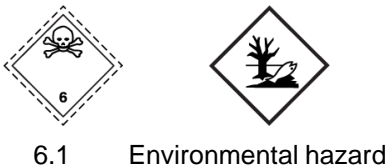
IATA proper shipping name  
 Toxic solid, inorganic, n.o.s. (Lead, dross, antimony-rich)

**14.3. Transport hazard class(es)**

Label  
 ADR/RID/ADN



IMDG



IATA



ADR / RID Class  
6.1

ADR / RID Classification code  
T5

ADR / RID hazard identification number  
60

IMDG Class  
6.1

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### IATA Class

6.1

### ADN Class

6.1

### ADN Class Code

TS

#### 14.4. Packing group

ADR / RID / ADN: III

IMDG: III

IATA: III

#### 14.5. Environmental hazards

Hazardous to the aquatic environment

#### 14.6. Special precautions for user

Tunnel restriction code: E

Transport category: 2

### IMDG EmS

F-A, S-A

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### Other

Not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)



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### National regulations

The Swedish Work Environment Agency's regulations on the working environment of minors and general advice on the application of the regulations (AFS 2012:3)

The Swedish Work Environment Authority's regulations and general advice (AFS 2007:5) on pregnant and breastfeeding workers with later amendments, latest AFS 2018:7

SFS Waste regulation (2020:614)

Hygienic limit values (AFS 2018:1/AFS 2023:14)

**Other regulations, limitations and legal regulations**The product is regulated under the Seveso Directive. Category E1.

### 15.2. Chemical safety assessment

Yes

### Other

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

lead (CAS 1317-36-8)

arsenic (EC 231-148-6)

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

lead (CAS 1317-36-8)

The product may not be used professionally by young people under 18 years of age. Exclusively for professional use.

Pregnant and breastfeeding women should not be exposed to the product. The risk and the possibilities for technical precautionary measures or adaptation of the workplace to avoid such an impact must therefore be considered.

## SECTION 16: Other information

### Changes to previous revision

Update

### Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

C&L - Classification and Labelling

CAS no. - Chemical Abstracts Service number

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSR - Chemical Safety Report DMEL - Derived Minimal Effect Level

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

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EWC - European Waste Catalogue  
ECHA - European Chemicals Agency  
EC no. - EINECS number (European Inventory of Existing Commercial Substances)  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
NOAEL - No Observed Adverse-Effect Level  
OEL - Occupational Exposure Limit  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration(s)  
PNEC - Predicted No Effect Concentration(s)  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
SCBA - Self-Contained Breathing Apparatus  
STOT - Specific Target Organ Toxicity  
SVHC - Substances of Very High Concern  
UFI - Unique Formula Identifier  
vPvB - Very Persistent and Very Bioaccumulative

**References to key literature and data sources**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  
Bolidens safety data sheet for Lead, dross, antimony-rich (2021)  
ECHA

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

**Lead, dross, antimony-rich****Phrase meaning**

Eye Dam. 1 - Serious eye damage, hazard category 1

Carc. 1A - Carcinogenicity, hazard category 1A

Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1

Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1

Skin Irrit. 2 - Skin irritation, hazard category 2

Repr. 1A - Reproductive toxicity, hazard category 1A

STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1

Acute Tox. 3 - oral - Acute toxicity, oral, hazard category 3

Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4

H301 Toxic if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H350 May cause cancer.

H360FD May damage fertility. May damage the unborn child

H372 Causes damage to organs through prolonged or repeated exposure (Central nervous system, Blood, Kidney).

H372 Causes damage to organs through prolonged or repeated exposure .?.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains sensitising substance(s). May produce an allergic reaction.

**Additional information**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.