

### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.06.2024

Version number 40 (replaces version 39)

Revision: 13.05.2024

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

##### 1.1 Product identifier

Product name: **Aluminium No.1**

##### Catalog number:

00515461, 515460BT, 4515460BT, 515461BT, 4515461BT, 00515460BT, 00515461BT, 00515469BT, SDT147, SDT1033

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

Application of the substance / the preparation: Reagent for water analysis

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

##### Supplier:

Tintometer GmbH  
Schleefstraße 8-12  
44287 Dortmund  
Made in Germany  
www.lovibond.com

phone: +49 (0)231 94510-0  
e-mail: sales@lovibond.com

The Tintometer Limited  
Lovibond® House  
Sun Rise Way  
Amesbury  
Wiltshire SP4 7GR  
United Kingdom

phone : +44 1980 664800  
e-mail: SDS@lovibond.uk

##### Informing department:

e-mail: sds@lovibond.com  
Product Safety Department

##### 1.4 Emergency telephone number:

+44 1235 239670  
Languages: English

#### SECTION 2: Hazards identification

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

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

The product is not classified as hazardous according to the GB CLP regulation.

##### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

##### Additional information:

EUH210 Safety data sheet available on request.

2.3 Other hazards The following applies to Mercaptane in general: offensive odour

##### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

##### Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

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

##### 3.2 Mixtures

Description: Mixture of organic and inorganic compounds

(Contd. on page 2)

GB

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.06.2024

Version number 40 (replaces version 39)

Revision: 13.05.2024

**Product name: Aluminium No.1**

(Contd. of page 1)

<b>· Dangerous components:</b>		
CAS: 70-49-5	mercaptosuccinic acid	2.5–5%
EINECS: 200-736-4	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, consult doctor.
- **After swallowing**  
Rinse out mouth and then drink 1-2 glasses of water.  
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed:**  
after swallowing of large amounts:  
sickness  
vomiting  
diarrhoea  
drop in blood pressure  
respiratory paralysis  
cardiovascular disorders
- **Danger** Danger of disturbed cardiac rhythm.
- **4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**  
The product is not combustible.  
Formation of toxic gases is possible during heating or in case of fire.  
Can be released in case of fire:  
Hydrogen chloride (HCl)  
Nitrogen oxides (NO<sub>x</sub>)  
Dipotassium oxide
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Ambient fire may liberate hazardous vapours.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **Advice for non-emergency personnel:** Wear protective equipment. Keep unprotected persons away.
- **Advice for emergency responders:** Protective equipment: see section 8
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Collect mechanically.  
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.

(Contd. on page 3)

GB

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.06.2024

Version number 40 (replaces version 39)

Revision: 13.05.2024

**Product name: Aluminium No.1**

(Contd. of page 2)

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
- **Advice on safe handling:** No special precautions necessary if used correctly.
- **Hygiene measures:**  
The usual precautionary measures should be adhered to general rules for handling chemicals.  
Do not eat, drink or smoke when using this product.  
Wash hands during breaks and at the end of the work.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Protect from the effects of light.  
Store under dry conditions.  
Protect from humidity and keep away from water.
- **Maximum storage temperature:** 25°C
- **Recommended storage temperature:** 20°C +/- 5°C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

##### CAS: 7447-40-7 potassium chloride

Oral	DNEL	455 mg/kg (Consumer / acute / systemic effects) 91 mg/kg (Consumer / long-term / systemic effects)
Dermal	DNEL	910 mg/kg (Worker / acute / systemic effects) 303 mg/kg (Worker / long-term /systemic effects) 910 mg/kg (Consumer / acute / systemic effects) 182 mg/kg (Consumer / long-term / systemic effects)
Inhalative	DNEL	5320 mg/m <sup>3</sup> (Worker / acute / systemic effects) 1064 mg/m <sup>3</sup> (Worker / long-term /systemic effects) 1365 mg/m <sup>3</sup> (Consumer / acute / systemic effects) 273 mg/m <sup>3</sup> (Consumer / long-term / systemic effects)

##### CAS: 7783-20-2 Ammonium Sulphate

Oral	DNEL	6.4 mg/kg (Consumer / long-term / systemic effects)
Dermal	DNEL	42.67 mg/kg (Worker / long-term /systemic effects) 12.8 mg/kg (Consumer / long-term / systemic effects)
Inhalative	DNEL	11.17 mg/m <sup>3</sup> (Worker / long-term /systemic effects) 1.67 mg/m <sup>3</sup> (Consumer / long-term / systemic effects)

#### · PNECs

##### CAS: 7783-20-2 Ammonium Sulphate

PNEC	16.18 mg/l (Sewage treatment plant)
	0.0312 mg/l (Marine water)
	0.53 mg/l (Aquatic intermittent release)
	0.312 mg/l (Fresh water)
PNEC	62.6 mg/kg (Soil)
	0.063 mg/kg (Fresh water sediment)

- **Additional information:** The lists that were valid during the compilation were used as basis.

(Contd. on page 4)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.06.2024

Version number 40 (replaces version 39)

Revision: 13.05.2024

**Product name: Aluminium No.1**

(Contd. of page 3)

**8.2 Exposure controls****Engineering measures:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

**Individual protection measures, such as personal protective equipment**

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

**Eye/face protection**

Safety glasses

use against the effects of fumes / dust

Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.

**Hand protection**

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Material of gloves**

nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

**Penetration time of glove material**

Value for the permeation: Level = 1 ( < 10 min )

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Other skin protection (body protection):** Protective work clothing.**Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.**Recommended filter device for short term use:** Filter P1**Environmental exposure controls** Do not allow product to reach sewage system or water bodies.

## SECTION 9: Physical and chemical properties

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

· <b>Physical state</b>	Solid.
· <b>Form:</b>	Tablets
· <b>Colour:</b>	Red
· <b>Odour:</b>	Nearly odourless
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/Freezing point:</b>	Not determined.
· <b>Boiling point or initial boiling point and boiling range</b>	Not determined.
· <b>Flammability</b>	The product is not combustible.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Lower and upper explosion limit</b>	
Lower:	Not applicable.
Upper:	Not applicable.
· <b>Flash point:</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH (11 g/l) at 20°C</b>	3.1
· <b>Kinematic viscosity</b>	Not applicable (solid).
· <b>Solubility</b>	
· <b>Water:</b>	Soluble
· <b>Partition coefficient n-octanol/water (log value)</b>	Not applicable (mixture).
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density:</b>	Not determined.
· <b>Relative gas density</b>	Not applicable (solid).
· <b>Particle characteristics</b>	Not determined.

**9.2 Other information****Information with regard to physical hazard classes**

· <b>Corrosive to metals</b>	Void
· <b>Other safety characteristics</b>	
· <b>Oxidising properties:</b>	none

(Contd. on page 5)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.06.2024

Version number 40 (replaces version 39)

Revision: 13.05.2024

Product name: Aluminium No.1

(Contd. of page 4)

· <b>Additional information</b>	
· <b>Solids content:</b>	100 %

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability** Stable at ambient temperature (room temperature).
- **10.3 Possibility of hazardous reactions**  
 Reacts with acids  
 Reacts with oxidizing agents  
 --> forms heat  
 Reacts with alkalis releasing ammonia
- **10.4 Conditions to avoid** Strong heating (decomposition)
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** see section 5

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · **LD/LC50 values that are relevant for classification:**

<b>CAS: 7447-40-7 potassium chloride</b>		
Oral	LD50	2600 mg/kg (rat) (RTECS)
<b>CAS: 7783-20-2 Ammonium Sulphate</b>		
Oral	LD50	2840 mg/kg (rat) (IUCLID)
<b>CAS: 70-49-5 mercaptosuccinic acid</b>		
Oral	LD50	800 mg/kg (rat)
	LD50 IVN	>1 mg/kg (rabbit)
	LD50 IPR	200 mg/kg (mouse)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

#### · **Information on components:**

<b>CAS: 7783-20-2 Ammonium Sulphate</b>		
Irritation of skin	OECD 404	(rabbit: no irritation) (IUCLID)
Irritation of eyes	OECD 492	(rabbit: no irritation) (IUCLID)

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.

#### · **Information on components:**

<b>CAS: 7447-40-7 potassium chloride</b>		
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)	
OECD 476	(negative) (In Vitro Mammalian Cell Gene Mutation Test)	
	Higher concentrations appeared to be toxic and mutagenic (Registrant, ECHA).	
<b>CAS: 7783-20-2 Ammonium Sulphate</b>		
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)	
OECD 473	(negative) (Mammalian Chromosomal Aberration Test)	

- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

(Contd. on page 6)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.06.2024

Version number 40 (replaces version 39)

Revision: 13.05.2024

**Product name: Aluminium No.1**

(Contd. of page 5)

**11.2 Information on other hazards**

- **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

**Other information**

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

## SECTION 12: Ecological information

**12.1 Toxicity****Aquatic toxicity:****CAS: 7447-40-7 potassium chloride**

EC50	660 mg/l/48h (Daphnia magna) (OECD 202) (Registrant, ECHA)
IC50	2500 mg/l/72h (Desmodesmus subspicatus) (IUCLID)
NOEC	500 mg/l (fathhead minnow) (7d; similar OECD 210) (Registrant, ECHA)
LC50	880 mg/l/96h (fathhead minnow) (OECD 203) (Registrant, ECHA)

**CAS: 7783-20-2 Ammonium Sulphate**

EC50	129 mg/l/48h (Daphnia magna) (IUCLID)
EC10	5.29 mg/l (bluegill) (30d) (ECHA)
LC50	420 mg/l/96h (zebrafish) (IUCLID)

- **Bacterial toxicity:** sulphates toxic > 2.5 g/l

**Other information:**

Toxic for fish:

Sulphates &gt; 7 g/l

Magnesium compounds: 100 - 400 mg/l

NH<sub>4</sub><sup>+</sup> > 0.3 mg/l

- **12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential**

Pow = n-octanol/wasser partition coefficient

log Pow &lt; 1 = Does not accumulate in organisms.

**CAS: 70-49-5 mercaptosuccinic acid**

log Pow -0.88 (.) (calculated)

- **12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies. Avoid transfer into the environment.

**Water hazard:**

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation**

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

— GB —

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.06.2024

Version number 40 (replaces version 39)

Revision: 13.05.2024

Product name: Aluminium No.1

(Contd. of page 6)

· <b>European waste catalogue</b>	
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
· <b>Uncleaned packagings:</b>	
· <b>Recommendation:</b> Disposal must be made according to official regulations.	
· <b>Recommended cleaning agent:</b> Water, if necessary with cleaning agent.	

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b>	Void
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.2 UN proper shipping name</b>	Void
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.

### SECTION 15: Regulatory information

· <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
· <b>Poisons Act UK</b>	
· <b>Regulated explosives precursors</b>	
None of the ingredients is listed.	
· <b>Regulated poisons</b>	
None of the ingredients is listed.	
· <b>Reportable explosives precursors</b>	
None of the ingredients is listed.	
· <b>Reportable poisons</b>	
None of the ingredients is listed.	
· <b>Regulation (EU) 2019/1148 on the marketing and use of explosives precursors not regulated</b>	
· <b>Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)</b>	
None of the ingredients is listed.	
· <b>Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:</b>	
None of the ingredients is listed.	
· <b>Regulation (EC) No 273/2004 on drug precursors</b>	
None of the ingredients is listed.	
· <b>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b>	
None of the ingredients is listed.	
· <b>Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:</b>	
None of the ingredients is listed.	
· <b>REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)</b>	
None of the ingredients is listed.	

(Contd. on page 8)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.06.2024

Version number 40 (replaces version 39)

Revision: 13.05.2024

**Product name: Aluminium No.1**

(Contd. of page 7)

**· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

**· Substances of very high concern (SVHC) according to REACH, Article 57**This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).**· Substances of very high concern (SVHC) according to UK REACH**This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).**· Directive 2012/18/EU (SEVESO III):****· Named dangerous substances - ANNEX I** None of the ingredients is listed.**· REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 65**· Information about limitation of use:** Not required.**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

**· Training hints** Provide adequate information, instruction and training for operators.**· Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**· Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**· Sources** Data arise from safety data sheets, reference works and literature.**· \* Data compared to the previous version altered.**