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Section 1 Identification of the substance/mixture and the company

- 1.1 Product identifier **Aluminium No.1**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of substance Reagent for water analysis
- 1.3 Supplier WAPOTEC GmbH
Franz-Sauer-Str. 44
A-5020 Salzburg
Tel: +43 662 434342-0
Fax: +43 662 434342-3
- Contact Mr. G. Weiss
Email: office@wapotec.at
- 1.4 Emergency phone +43 662 43 43 42-0
Office hours: MO - TH: 8.00 - 16.00, FR: 8.00 - 12.00
- Toxicity information centre Vienna:**
Phone: +43 1 406 43 43
Available 0-24h

Section 2 Hazards identification

- 2.1 Hazard classification of substance or mixture
- According to Directive (EC) N° 1272/2008
Not applicable.
The product is not classified as dangerous.
- according to Directive (EC) N° 1999/45
Not applicable.
The product is not classified as dangerous.
- 2.2 Label elements
- According to Directive (EC) 1272/2008
Not applicable.
The product is not classified as dangerous according to Directive (EC) 1272/2008
- According to Directive (EC) N° 1999/45
Not applicable.
The product is not classified as dangerous according to Directive (EC) N° 1999/45
- Danger defining components for labeling
Not applicable.

Section 3 Composition/information on ingredients

3.2 Mixtures

☉ Chemical characteristics

Preparation of organic and inorganic compounds

☉ Dangerous components

Name	CAS # / EC # / Index #	Gew. %	Einstufung gem.		
			RL 67/548/EWG*	VO (EG) 1272/2008*	
Mercaptosuccini acid	70-49-5/ 200-736-4/ -	2,5-5	Xn ; R22 Xi; R 36/37/38	Acute tox. 4 Skin irrit. 2 Eye Irrit. 2 STOT SE 3	H302 H315 H319 H335

* For the wording of R- resp. H-Phrases and danger classification see section 16.

REACH - Pre-registered substances All components are REACH pre-registered..

Section 4 First-aid measures

4.1 Description of first aid measures

Remove immediately all contaminated clothing.

☉ After inhalation

Move affected person immediately to fresh air.
Seek medical treatment in case of symptoms.

☉ After skin contact

After skin contact, wash immediately with plenty of water and soap and rinse thoroughly.

☉ After eye contact

After eye contact, rinse eye for several minutes (at least 15 minutes) under running water holding eye lids open.
Get medical advice immediately.

☉ After ingestion

Rinse the mouth with plenty of water and drink at least 1-2 glasses of water.
Get medical advice if symptoms persist.

4.2 Most important symptoms and effects, acute and delayed

Sickness
Vomiting
Diarrhea
Low blood pressure
Respiratory paralysis

Cardiovascular disorders

- 4.3 Indications for immediate medical attention or special treatment needed
No further relevant information available.

Section 5 Fire-fighting measures

- 5.1 Extinguishing media

☉ Suitable extinguishing media

Use fire fighting measures that suit the environment.

☉ Unsuitable extinguishing media for safety reasons

No further information available.

- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Hydrogen chloride (HCl)

Sulphur oxides (SO_x)

- 5.3 Special protective actions for fire-fighters

Special protective equipment: Wear self-contained breathing apparatus.

☉ 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 vapors.

Section 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and suitable emergency procedures.

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions

Do not allow product to reach sewage system or water bodies.

- 6.3 Measures for cleaning/collecting:

Collect mechanically.

Ensure adequate ventilation.

Dispose of contaminated material as waste according to section 13.

- 6.4 Additional information

Collect mechanically.

Ensure adequate ventilation.

Dispose of contaminated material as waste according to item 13.

Information on safe handling see section 7.

Information on protective measures see section 8

Information on disposal see section 13

- Additional information: No dangerous materials are released.

Section 7 Handling and storage

- 7.1 Precautions for safe handling
No special measures required.
- 7.2 Conditions for safe storage including any incompatibilities
- Fire and explosion protection measures
The product is not flammable
 - Design of storage rooms and container
Protect from heat and direct sunlight.
Store under dry and cool conditions.
Protect from humidity and keep away from water.
Protect from the effects of light.
Store away from oxidizing agents.
 - Recommended storage temperature: 20°C +/-5°C
 - Material incompatibility
Store away from oxidizing agents.
 - VbF class: 11
- 7.3 Specific end uses
No further information available.

Section 8 Exposure controls and personal protection

- 8.1 Control parameters
The product does not contain relevant quantities of substances with monitored limits based on the workplace.
- 8.2 Exposure controls
- General protective and hygiene measures
Follow usual precautions when dealing with chemicals. Keep away from food and drinks. Do not eat, drink or smoke at work. Wash hands before breaks and end of work. Avoid eye and skin contact. Avoid inhaling of steams/aerosols. Change contaminated work wear and clean it before the next wearing. Preventive skin protection.
Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
 - Respiratory protection
In case of exposure to steam, dust or aerosol use inhalation protection.
Recommended filter device for short term use: Filter P1
 - Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.
 After use of gloves apply skin-cleaning agents and skin cosmetics.

Glove material: Nitrile rubber

Recommended thickness of the material: ≥ 0.11 mm

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

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

 Eye protection:

In case of exposure to steam / dust use Tightly sealed goggles.

 Personal protection

Protective working clothing

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Tablets
Color	Pink
Odor	Nearly odorless
pH-value (11 g/l) at20°C	3.1
Melting point	Not determined
Boiling point / Boiling range	1413° C
Flash point	Not applicable
Density	Not determined
Solubility in water	Soluble
Explosive properties	Product is not explosive

9.2 Other information:

Solid content: 100,0%

Solvent content:

Organic solvents: 0,0%

No further information available.

Section 10 Stability and reactivity

10.1 Reactivity

To avoid thermal decomposition do not overheat.
 No hazardous reactions for intended use.

10.2 Chemical stability

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts with acids and oxidizing agents.

10.4 Conditions to avoid

Avoid extreme temperatures. No further information available.

10.5 Incompatible materials

Acids

Oxidizing agents

-> forms heat

10.6 Hazardous decomposition products

See section 5

Section 11

Toxicological information

11.1 Information on toxicological effects

LD/LC50 values that are relevant for classification (literature)

Acute toxicity

Quantitative data on the toxicity of the preparation are not available.

70-49-5 DL- Mercaptosuccini acid		
Oral	LD ₅₀	800 mg/kg (rat)
	LD ₅₀ IPR	200 mg/kg (mouse)
	LD ₅₀ IVN	> 1 mg/kg (rabbit)

Primary irritant effect:

Skin: No irritation

Eye: Irritation

Sensitization

No sensitizing effect known.

Carcinogenicity

No data available.

Mutagenicity




No data available.

Additional toxicological information:



The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The usual precautionary measures should be adhered to general rules for handling chemicals.

Section 12 Ecological information

- 12.1 Toxicity
 Aquatic toxicity
 No further relevant information available.
- 12.2 Persistence and degradability
 No further relevant information available.
- 12.3 Bioaccumulation potential
 No further relevant information available.
 Behaviour in environmental systems
 70-49-5 - Mercaptosuccini acid
 $\log (Po/w) -0,88 (.)$
- 12.4 Mobility in soil
 Ecotoxicological effects
 Remarks:
 Toxic to fish:

NH ₄ ⁺	>0.3 mg/l
Sulphates	>7 g/l
Magnesium compounds:	100-400 mg/l

 Bacterial toxicity:
 Sulphates toxic > 2.5 g/l
 Additional ecological information:
 General information:
 Water hazard class 3 (German Regulation) (self-assessment acc. VwVwS Annex 4 Nr. 3)
 Severely hazardous to water
 Do not allow product to reach ground water, water bodies or sewage system.
 Danger to drinking water even if extremely small quantities leak into soil.
- 12.5 Results of PBT- and vPvB-assessment
 No data available.
- 12.6 Other adverse effects
 No further relevant information available..



Section 13 Disposal considerations

- 13.1 Waste treatment methods
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Hand over to disposers of hazardous waste. Chemicals must be disposed of in

compliance with national and regional regulations.

☉ Waste key number

16 05 09

☉ Waste name

Discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08.

☉ European waste catalogue

EWC-waste key is source-related.

The decision is up to the enduser.

☉ Contaminated packaging material

Chemicals must be disposed of in compliance with national and regional regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

Section 14 Transport information

No dangerous good according to regulation for transport of dangerous goods.

14.1

UN-Number

Not applicable.

14.2

Proper UN-shipping name

Not applicable.

14.3

Transport hazard class

Not applicable.

14.4

Packaging group

Not applicable.

14.5

Environmental hazards

Not applicable.

14.6

Special precautions for the user

Section 15 Regulatory information

15.1

Safety-, health-, ambient- and legislation specific instructions for substance or mixture

This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006.

The mixture is classified according to Dangerous Preparations Directive (EC) 1999/45 and to regulation (EC)1272/2008 Annex I.

National regulations:

Austria:

☉ ChemG 1996-amendment 2011.

This product is not classified hazardous (no hazardous preparation) according to the Austrian chemical legislation of 1996- amendment 2011.

☉ VbF - Directive about combustible liquids (BGBl 1991/240)

This product is not classified as combustible liquid acc. VbF.

Germany:

- ☉ Classification in water hazard classes according VwVwS dated 17.05.1999/annex 4
- ☉ WP 3 (Severely hazardous to water)
- ☉ Employment restrictions: Not applicable.
- ☉ Major Accident Ordinance (12. BIm SchV): Not applicable. (Directive 96/82/CE)
- ☉ Solvents Regulation (31. BImSchV): Not applicable.
- ☉ Classification according to Industrial Safety Regulation (BetrSichV): Not applicable.

15.2

Chemical safety assessment

A chemical safety assessment has not been carried out.

Section 16 Other information

The information provided on this SDS is correct to the best of our knowledge and information, but not to be considered as warranty or quality specification nor creates contractual relationship. The information given is designed only as a guidance for safe handling. The categorisation according to Dangerous Preparations Directive 1999/45/EC resp. regulation CLP (EC)1272/2008 is based on the classification of the single component according to Annex VI of regulation CLP (EC)1272/2008 as well as on manufacturer's data completed by hazardous material database.

☉ Relevant R-phrases

22	Harmful if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.

☉ Relevant H-phrases

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

☉ Relevant hazard classification

Not applicable

☉ Edition

Nr. 3 replaces the previous version
 Amendments: 1.4, 8.2, 9.1.11.1 15.1

☉ Written by

WAPOTEC GmbH

☉ Short cut

n. t. not tested
 n. a. not applicable
 PBT persistent, bio-accumulative, toxic
 vPvB high persistent, high bio-accumulative