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Safety data sheet according to 1907/2006/EC

Printing date 03.03.2022

undertaking

Version number 10 (replaces version 9)

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

- · 1.1 Product identifier
- · Trade name: Testoval Aluminium Test B
- · UFI: 6DYU-XT8S-HC01-A7E2
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation:

Reagent for analysis

EuPCS: PC-TEC-19 Reagents and laboratory chemical

- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Gebrüder Heyl Analysentechnik GmbH & Co. KG Orleansstraße 75 b D-31135 Hildesheim Phone +49 (0) 5121 2893390 Fax +49 (0) 5121 2893367 E-mail info@heylanalysis.de Internet www.heylanalysis.de

- · Further information obtainable from: product safety department
- · 1.4 Emergency telephone number:

Giftinformationszentrum Nord Phone +49 (0) 551 19240

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals. Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:

thioglycolic acid sodium metabisulphite sulphuric acid

· Hazard statements

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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· Precautionary statements

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor. P390 Absorb spillage to prevent material damage.

· Additional information:

EUH031 Contact with acids liberates toxic gas.

- · Labelling of packages where the contents do not exceed 125 ml
- · Hazard pictograms



GHS05

- Signal word Danger
- · Hazard-determining components of labelling:

thioalvcolic acid sodium metabisulphite sulphuric acid

· Hazard statements

H318 Causes serious eye damage.

Precautionary statements

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor. P390 Absorb spillage to prevent material damage.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Mixture of substances listed below with nonhazardous additions according to Regulation (EC) No 1272/2008.

· Dangerous components:		
CAS: 7681-57-4	sodium metabisulphite	1 – 2.5%
Index number: 016-063-00-2	Eye Dam. 1, H318	
EINECS: 231-639-5	sulphuric acid Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	
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CAS: 68-11-1 thioglycolic acid

EINECS: 200-677-4 Index number: 607-090-00-6 Reg.nr.: 01-2119494933-24

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3,

H331

Skin Corr. 1B, H314

· SVHC Not applicable.

· 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: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

· After swallowing:

A person vomiting while laying on their back should be turned onto their side.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

· 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

Sulphur dioxide (SO2)

Nitrogen oxides (NOx)

- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

Clean the affected area carefully; suitable cleaners are:

Warm water

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep container tightly sealed.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

- Recommended storage temperature: 15 25 °C
- Storage class: Storage class 8B: Non-combustible corrosive substances (TRGS 510)
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	Ingredients with	limit values that	require monitorin	g at the workplace:
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CAS: 7681-57-4 sodium metabisulphite

MAK (Germany) vgl. Abschn. IV

CAS: 7664-93-9 sulphuric acid

AGW (Germany) Long-term value: 0.1 E mg/m³

1(I);DFG, EU, Y

CAS: 68-11-1 thioglycolic acid

MAK (Germany) als Dampf und Aerosol;vgl. Abschn. Ilb

Regulatory information

MAK (Germany): MAK- und BAT-Liste

AGW (Germany): TRGS 900

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Use suitable respiratory protective device when aerosol or mist is formed. Filter: Type P2 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Hand protection



Protective gloves

Wear gloves according to EN 374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check protective gloves prior to each use for their proper condition.

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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

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

5.3

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.12 mm Value for the permeation: Level = 6 (> 480 min)

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.12 mm Value for the permeation: Level = 6 (> 480 min)

Eye/face protection



Tightly sealed goggles according to EN 166

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odourless
Odour threshold:
Melting point/freezing point:

Fluid

Colourless
Odourless
Not determined.

Undetermined.

Boiling point or initial boiling point and

boiling range Undetermined.

Flammability Not applicable.

· Lower and upper explosion limit

Lower:

Not determined.

Vupper:
Not determined.

Flash point:
Undetermined.

Vot determined.

Vot determined.

Vot determined.

Not determined.

Not determined.

Not determined.

· pH (100 g/l) at 20 °C

· Viscosity:

· Kinematic viscosity Not determined.

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Not determined. · Dynamic:

· Solubility

· water: Fully miscible.

· Partition coefficient n-octanol/water (log

Not determined. Vapour pressure: Not determined.

Density and/or relative density

Density at 20 °C: 1.09 g/cm3 Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

· Important information on protection of health

and environment, and on safety.

Auto-ignition temperature: Product is not selfigniting.

Product does not present an explosion hazard. · Explosive properties:

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard

classes · Explosives Void Flammable gases Void Aerosols Void · Oxidising gases Void · Gases under pressure Void Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Self-heating substances and mixtures Void

· Substances and mixtures, which emit

flammable gases in contact with water Void · Oxidising liquids Void Void · Oxidising solids · Organic peroxides Void

· Corrosive to metals May be corrosive to metals.

· Desensitised explosives Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

· 10.3 Possibility of hazardous reactions

Contact with acids releases toxic gases.

Reacts with alkali (lyes).

- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Nitrogen oxides

Sulphur oxides (SOx)

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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	· LD/LC50 values relevant for classification:		
CAS: 768	CAS: 7681-57-4 sodium metabisulphite		
Oral	LD50	1,420 – 3,200 mg/kg (rat)	
Dermal	LD50	> 2,000 mg/kg (rat)	
Inhalative	LC50/4 h	5.5 mg/l (rat)	
CAS: 7664-93-9 sulphuric acid			
Oral	LD50	2,140 mg/kg (rat)	
CAS: 68-11-1 thioglycolic acid			
Oral	LD50	73 mg/kg (rat)	
Dermal	LD50	848 mg/kg (rabbit)	
Inhalative	LC50/4 h	1.388 mg/l (rat)	

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye damage.
- · 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.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

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 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

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

Disposal must be made according to official regulations.

- Uncleaned packaging:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN number or ID number · ADR, IMDG, IATA UN1760 · 14.2 UN proper shipping name · ADR · IMDG, IATA IMDG, IATA IMDG, IATA 1760 CORROSIVE LIQUID, N.O.S. ACID, THIOGLYCOLIC ACID) CORROSIVE LIQUID, N.O.S. (SULF THIOGLYCOLIC ACID) · 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class · Label · 14.4 Packing group · ADR, IMDG, IATA III · 14.5 Environmental hazards:	
ADR IT60 CORROSIVE LIQUID, N.O.S. ACID, THIOGLYCOLIC ACID) CORROSIVE LIQUID, N.O.S. (SULF THIOGLYCOLIC ACID) 14.3 Transport hazard class(es) ADR, IMDG, IATA Class Label 14.4 Packing group ADR, IMDG, IATA III	
THIOGLYCOLIC ACID) - 14.3 Transport hazard class(es) - ADR, IMDG, IATA - Class - Label - 14.4 Packing group - ADR, IMDG, IATA III	
· ADR, IMDG, IATA · Class 8 Corrosive substances. · Label 8 · 14.4 Packing group · ADR, IMDG, IATA	TIONIC ACID,
· Class 8 Corrosive substances. · Label 8 · 14.4 Packing group · ADR, IMDG, IATA III	
· Label 8 · 14.4 Packing group · ADR, IMDG, IATA	
· Label 8 · 14.4 Packing group · ADR, IMDG, IATA	
· ADR, IMDG, IATA	
· 14.5 Environmental hazards:	
Marine pollutant: No	
• 14.6 Special precautions for user Warning: Corrosive substances.	
· Hazard identification number (Kemler code): 80 · EMS Number: F-A,S-B	
Segregation groups Strong acids	
Stowage Category A	
Stowage Code SW2 Clear of living quarters.	
· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.	
· Transport/Additional information: Void	
· ADR	
Limited quantities (LQ) 5L	
Excepted quantities (EQ) Code: E1 Maximum net quantity per inner pack Maximum net quantity per outer pa ml	
Transport category 3	

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· Tunnel restriction code	E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID, THIOGLYCOLIC ACID), 8, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

CAS: 7664-93-9 sulphuric acid

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7664-93-9 sulphuric acid 3

- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· Technical instructions (air):

Class	Share in %
1	1 – 2.5

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H301 Toxic if swallowed. H302 Harmful if swallowed.

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H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

EUH031 Contact with acids liberates toxic gas.

· Department issuing SDS: product safety department

Date of previous version: 17.04.2020 Version number of previous version: 9

Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road) 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)

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

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

* Data compared to the previous version altered.

DE_EN