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Safety data sheet according to 1907/2006/EC, Article 31

revised on: 21.12.2021

Version number 2

Creation Date: 15.12.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: TISAB III solution
 Article number: 743 CAS Number: Relevant CAS No. see chapter 3 Registration number This product is a mixture. REACH registration numbers see section 3. UFI: X2T0-Y0A0-R005-YRXM 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Commercial use Reagent for analysis Laboratory chemicals
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Th. Geyer GmbH & Co. KG Dornierstr. 4 – 6 D-71272 Renningen
Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de sicherheitsdatenblaetter@thgeyer.de
• Further information obtainable from: Product management department
• 1.4 Emergency telephone number: National Poisons Information Service (Birmingham Centre) City Hospital Dudley Road Birmingham B18 7QH Tel.:Emergency: (00 44) 87 06 00 62 66
SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 GHS07 Fundamin 4: 11240 Courses continue and initiation
 Eye Irrit. 2 H319 Causes serious eye irritation. • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. (Contd. on page 2)

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· Hazard pictograms



- · Signal word Warning
- · Hazard statements
- H319 Causes serious eye irritation.

Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container in accordance with loca

Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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.

· Dangerous components:

Dangereae compensation		
CAS: 12125-02-9	Ammonium chloride	≥10–<25%
	(1) Acute Tox. 4, H302; Eve Irrit. 2, H319	
Reg.nr.: 01-2119489385-24-XXXX		
CAS: 13291-61-7	CDTA	<2.50%
	Eye Irrit. 2, H319	
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:
- First aider needs to protect himself.

Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Flush contaminated skijn with soap and plenty of water.

After prolonged contact or any signs of skin changes (redness or other signs of inflammation) seek medical attention.

• After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

Put a vomiting person lying on his back in the stable lateral position.

· Information for doctor: Please observe safety data sheet/label.

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- **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 Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing. Particular danger of slipping on leaked/spilled product.

Avoid contact with eyes and skin.

Ensure adequate ventilation.

• 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Apply the general protection and hygiene measures for the handling with chemicals. Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Substance itself does not burn, tuning measures to environment

· 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:
- Protect from heat and direct sunlight.
- Store in cool, dry conditions in well sealed receptacles.
- · Storage class: 12
- 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

CAS: 12125-02-9 Ammonium chloride

WEL Short-term value: 20 mg/m³

Long-term value: 10 mg/m³

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

· 8.2 Exposure controls

Personal protective equipment:

• General protective and hygienic measures: Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

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

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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.

Eye protection:



Safety glasses

· Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:
- Form:
- Colour:
- · Odour:
- Odour threshold:

Fluid According to product specification Characteristic Not determined.

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pH-value at 20 °C:	~5.5
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. :: >100 °C
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
• Density at 20 °C: • Relative density • Vapour density • Evaporation rate	>1 g/cm ³ Not determined. Not determined. Not determined. Not determined.
 Solubility in / Miscibility with water: 	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
[·] Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Water: VOC (EC)	<72.5 % 0.00 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability Stable with proper storage and handling.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: Avoid contact with other chemicals.
- · 10.6 Hazardous decomposition products:

In case of fire / burns, development of hazardous combustion gases or vapors possible.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 6,600–16,500 mg/kg (rat)

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CAS: 12125-02-9 Ammonium chloride

Oral LD50 1,650 mg/kg (rat)

Primary irritant effect:

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation

- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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.

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.
- 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.

12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Observe local (country-specific) regulations and laws

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Chemicals must be disposed of in compliance with the respective national regulations.

· European waste catalogue		
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 05 00	gases in pressure containers and discarded chemicals	
	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals	
HP4	Irritant - skin irritation and eye damage	

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

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

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SECTION 44. Transport information		
SECTION 14: Transport information		
· 14.1 UN-Number		
· ADR, IMDG, IATA	not regulated	
 14.2 UN proper shipping name ADR, IMDG, IATA 	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	not regulated	
· 14.4 Packing group		
· ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Annex II of		
Marpol and the IBC Code	Not applicable.	
· UN "Model Regulation":	not regulated	

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, 65

• 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

None of the ingredients is listed.

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

None of the ingredients is listed.

National regulations:

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

• 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.

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(Contd. of page 7) Application, use and handling of our products take place out of our control and are solely your responsibility.
 Relevant phrases H302 Harmful if swallowed. H319 Causes serious eye irritation.
 Department issuing SDS: Product management Contact: Product management Abbreviations and acronyms: 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) VOC: Volatile Organic Compounds (USA, EU) Lo50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 * Data compared to the previous version altered.