# Tintometer<sup>®</sup> Group Water Testing



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

Printing date 15.11.2023

Version number 2 (replaces version 1)

Revision: 15.11.2023

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

- 1.1 Product identifier
- · Product name: Vario EGTA Solution
- · Catalog number: 424327, 531480, 531480-0
- 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

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

- 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



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.



Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 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 GB CLP regulation. • Hazard pictograms



· Signal word Warning

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### Product name: Vario EGTA Solution

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### · Hazard statements

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H290 May be corrosive to metals.

H315 Causes skin irritation.

- H319 Causes serious eye irritation.
- Precautionary statements

P280 Wear protective gloves/protective clothing/eye 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.
- P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P390 Absorb spillage to prevent material damage.

• 2.3 Other hazards No further relevant information available.

### · 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:** aqueous solution

### · Dangerous components:

Dangerous components.		
CAS: 1310-73-2	sodium hydroxide	0.5-<2%
EINECS: 215-185-5	Met. Corr.1, H290; Skin Corr. 1A, H314	
Index No: 011-002-00-6	Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 %	
Reg.nr.: 01-2119457892-27-XXXX	Skin Corr. 1B; H314: 2 % ≤ C < 5 %	
	Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %	
	Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	

• 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; consult doctor in case of symptoms.
- · After skin contact
- Instantly rinse with water.
- If skin irritation continues, consult a doctor.
- After eye contact Rinse opened eye for several minutes (at least 15 min) under running water. Then 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: irritations

• 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:

- Nitrogen oxides (NOx)
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained breathing apparatus. Wear full protective suit.

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#### · Additional information

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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.

- Ensure adequate ventilation
- · 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. Use neutralising agent.

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

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.

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:

Avoid contact with the skin.

Avoid contact with the eyes. Take off immediately all contaminated clothing. Wash hands during breaks and at the end of the work. Do not eat, drink or smoke when using this product.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and containers:

Store in cool location.

Keep only in original packaging.

- Information about storage in one common storage facility: Store away from metals.
- · Further information about storage conditions:
- Protect from heat and direct sunlight.
- Protect from the effects of light.
- Protect from humidity and keep away from water.
- 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:

CAS: 1310-73-2 sodium hydroxide

WEL (Great Britain) Short-term value: 2 mg/m<sup>3</sup>

Regulatory information WEL (Great Britain): EH40/2020

· DNELs

Derived No Effect Level (DNEL)

CAS: 1310-73-2 sodium hydroxide

Inhalative DNEL 1 mg/m<sup>3</sup> (Worker / long-term / local effects) 1 mg/m<sup>3</sup> (Consumer / long-term / local effects)

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· Recommended monitoring procedures:	
Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DI DIN EN 689.	IN EN 482 and
· Additional information: The lists that were valid during the compilation were used as basis.	
· 8.2 Exposure controls	
Engineering measures:	
Technical measures and appropriate working operations should be given priority over the use of personal pro See item 7.	otective equipment.
· Individual protection measures, such as personal protective equipment	
Protective clothing should be selected specifically for the workplace, depending on concentration and quantity	y of the hazardous
substances handled.	
Eye/face protection Safety glasses	
· Hand protection	
Protective gloves. 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: ≥ 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 o	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 P2

· 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 pro	operties
· Physical state	Fluid
Form:	Solution
· Colour:	Colourless
· Odour:	Odourless
· Odour threshold:	Not applicable.
• Melting point/Freezing point:	Not determined.
Boiling point or initial boiling point and boiling ran	<b>ge</b> 100°C (CAS: 7732-18-5 water)
· Flammability	The product is not combustible.
· Explosive properties:	Product is not explosive.
• Lower and upper explosion limit	
Lower:	Not applicable.
Upper:	Not applicable.
· Flash point:	Not applicable.
<ul> <li>Auto-ignition temperature:</li> </ul>	Not applicable.
<ul> <li>Decomposition temperature:</li> </ul>	Not applicable.
· pH at 20°C	12.6
	Strongly alkaline
· Kinematic viscosity	Not determined.
· Solubility	
· Water:	Fully miscible
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	Not applicable (mixture).
· Vapour pressure:	Not determined.
Density and/or relative density	
· Density at 20°C:	1.02 g/cm <sup>3</sup>
· Relative density:	Not determined.
· Relative gas density	Not determined.
· Particle characteristics	Not applicable (liquid).

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· 9.2 Other information	
· Information with regard to physical hazar	d classes
· Corrosive to metals	May be corrosive to metals.
· Metals that are corroded by the substance	e or mixture Information on incompatible materials can be found in Sections 7 and
-	10.
Other safety characteristics	
· Oxidising properties:	none
· Additional information	
· Solids content:	< 5 %
· Solvent content:	
· Organic solvents:	0 %
· Water:	> 95 %

### **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
- Corrosive action on metals
- Corrodes aluminium

Exothermic reaction with acids

- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:
- metals
- light metals

aluminium zinc

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:

		-73-2 sodium hydroxide
Oral	LDLo	500 mg/kg (rabbit) (IUCLID)

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

· Information on components: CAS 1310-73-2: chronic: dermatitis

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Information on components:

CAS: 1310-73-2 sodium hydroxide

Sensitisation Patch test (human) (negative)

· 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 (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.

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### Product name: Vario EGTA Solution

### · Additional toxicological information:

### CAS: 1310-73-2 sodium hydroxide

(source: GESTIS)

Main toxic effects:

Acute: strong irritation and caustic effect on all contacted mucous membranes and the skin, risk of irreversible eye damage (risk of blindness)

Chronic: Irritant effect on eyes, respiratory tract and skin

Further information:

Irrespective of the route of exposure, the focus is on the local effect, which is characterized by swelling and dissolution of the contacted tissue (colliquation necrosis) that progresses rapidly in depth.

The extent of the tissue damage essentially depends on the duration of exposure, concentration, pH value, dose and onset of treatment measures.

11.2 Information on other hazards

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

# SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

### CAS: 1310-73-2 sodium hydroxide

LC50 40.4 mg/l/48h (Ceriodaphnia sp.)

(ECHA)

## · Bacterial toxicity:

#### CAS: 1310-73-2 sodium hydroxide

EC50 22 mg/l (Photobacterium phosphoreum) (15 min)

- 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

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
- Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

Avoid transfer into the environment.

Water hazard:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

### · European waste catalogue

16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

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SECTION 14: Transport information		
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1824	
	UN 1824	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> </ul>	1824 SODIUM HYDROXIDE SOLUTION	
	SODIUM HYDROXIDE SOLUTION	
• 14.3 Transport hazard class(es)		
· ADR		
ADR		
3		
· Class	8 (C5) Corrosive substances.	
·Label	8	
· IMDG, IATA		
8		
· Class	8 Corrosive substances.	
· Label	8	
· 14.4 Packing group		
· ADR, IMDG, IATA	III	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Warning: Corrosive substances.	
Kemler Number:	80	
EMS Number:	F-A,S-B	
<ul> <li>Segregation groups</li> <li>Stowage Category</li> </ul>	(SGG18) Alkalis A	
· Segregation Code	SG35 Stow "separated from" SGG1-acids	
• 14.7 Maritime transport in bulk according to I		
instruments	Not applicable.	
Transport/Additional information:		
ADR		
<ul> <li>Limited quantities (LQ)</li> </ul>	5L	
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E1	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
· Transport category	3	
Tunnel restriction code	E	
·IMDG		
Limited quantities (LQ)	5L	
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E1 Maximum pat quantity par inpar packaging: 20 ml	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
	mannan nor quantity por outer puologing. 1000 mil	

# **SECTION 15: Regulatory information**

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

### · Poisons Act UK

· Regulated explosives precursors

None of the ingredients is listed.

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Regulated pois	ne	(Contd. of pag
None of the ingr		
None of the ingr	losives precursors	
Reportable poi		
	n of the substance is less than the stated mass percentage and is therefore of n	o concern:
	sodium hydroxide	12% of total caustic alkalin
Regulation (EU	2019/1148 on the marketing and use of explosives precursors not regulated	
Regulation (EU	No 649/2012 concerning the export and import of hazardous chemicals (P	IC)
None of the ingr	edients is listed.	
Regulation (EC technology:	No 1334/2000 setting up a Community regime for the control of exports of	dual-use items and
None of the ingr	edients is listed.	
<b>Regulation (EC</b>	No 273/2004 on drug precursors	
None of the ingr	edients is listed.	
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community in drug precursors		mmunity and third countrie
None of the ingr	edients is listed.	
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:		
None of the ingr	edients is listed.	
<b>REGULATION</b> (	EU) 2019/1021 on persistent organic pollutants (POP)	
None of the ingr	edients is listed.	
LIST OF SUBS	ANCES SUBJECT TO AUTHORISATION (ANNEX XIV)	
None of the ingr	edients is listed.	
This product doe <b>Substances of</b>	very high concern (SVHC) according to REACH, Article 57 s not contain any substances of very high concern above the legal concentration very high concern (SVHC) according to UK REACH s not contain any substances of very high concern above the legal concentration	· · · ·
	8/EU (SEVESO III): Substances - ANNEX I None of the ingredients is listed.	
REGULATION (	EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3	
Information ab	out limitation of use: Not required.	
	afety assessment: A Chemical Safety Assessment has not been carried out.	

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 Sheets 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

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

### 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

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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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic PB1: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals – Category 1 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

#### Sources

Data arise from safety data sheets, reference works and literature. GESTIS- Stoffdatenbank (Substance Database, Germany)

\*\* Data compared to the previous version altered.

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