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



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

Printing date 14.11.2023

Version number 34 (replaces version 33)

Revision: 14.11.2023

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

- 1.1 Product identifier
- Product name: Vario Nitri 3 F10, F25 ml
- · Catalog number: 00530989, 00530979, 530970, 530973, 530980, 530982, 4530970, 4530980
- 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

Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.

· 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 Danger

- Hazard-determining components of labelling:
- dipotassium disulfate
- · Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P261 Avoid breathing dust.

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P280	Wear protective gloves/protective clothing/eye protection.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or sho	ower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present a	ind easy to
	do. Continue rinsing.	
P310	Immediately call a doctor.	

· 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:** Mixture of organic and inorganic compounds

Dangerous compo	nents:	
CAS: 7790-62-7	dipotassium disulfate	5–10%
EINECS: 232-216-8	♦ Acute Tox. 3, H331; ♦ Skin Corr. 1A, H314; Eye Dam. 1, H318 ATE: LD50 oral: 2500 mg/kg LC50/4h inhalative: 0.5 mg/l	
CAS: 5808-22-0	Chromotropic acid disodium salt dihydrate	≤2.5%
EINECS: 204-972-9	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
· Additional informa	tion 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. Call a doctor immediately.
- After skin contact
- Instantly rinse with water.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

· After eye contact

Rinse opened eye for several minutes (at least 15 min) under running water.

- Call a doctor immediately.
- · After swallowing
- Rinse out mouth and then drink 1-2 glasses of water.

Do not induce vomiting; instantly call for medical help.

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

burns after swallowing: sickness vomiting gastric pain diarrhoea general feeling of sickness • **Danger** Danger of pulmonary oedema.

4.3 Indication of any immediate medical attention and special treatment needed:

If swallowed or in case of vomiting, danger of entering the lungs

Subsequent observation for pneumonia and pulmonary oedema

## **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.

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<ul> <li>Formation of toxic gases is possible during heating or in case of fire.</li> <li>Phosporus oxides (PxOx)</li> <li>Dipotassium oxide</li> <li><b>5.3 Advice for firefighters</b></li> <li><b>Protective equipment:</b></li> <li>Wear self-contained breathing apparatus.</li> <li>Wear full protective suit.</li> <li><b>Additional information</b></li> <li>Collect contaminated fire fighting water separately. It must not enter drains.</li> <li>Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.</li> <li>Ambient fire may liberate hazardous vapours.</li> </ul>
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.
- Avoid substance contact.
- Ensure adequate ventilation
- Use breathing protection against the effects of fumes/dust/aerosol.
- 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.
- See Section 13 for information on disposal.

## **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling
- · Advice on safe handling:
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of dust.
- Thorough dedusting.
- **Hygiene measures:** Do not inhale dust / smoke / mist.
- Do not get in eyes, on skin, or on clothing.
- 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.
- 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.
- 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. (Contd. on page 4)

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· Recommended monitoring procedures:	
Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN DIN EN 689.	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 prote See item 7.	ective equipment.
· 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 Tightly sealed safety glasses.	
· Hand protection Protective gloves.	
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: $\geq$ 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 ob	served.

· 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 prop	
· Physical state	Solid.
· Form:	Powder
· Colour:	Light beige
· Odour:	Odourless
· Odour threshold:	Not applicable.
<ul> <li>Melting point/Freezing point:</li> </ul>	Not determined.
<ul> <li>Boiling point or initial boiling point and boiling rang</li> </ul>	e Not determined.
· Flammability	The product is not combustible.
<ul> <li>Explosive properties:</li> </ul>	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 (solid).
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· pH at 20°C	3.1
· Kinematic viscosity	Not applicable (solid).
· Solubility	
· Water:	Partially insoluble.
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	Not applicable (mixture).
· Vapour pressure:	Not applicable.
<ul> <li>Density and/or relative density</li> </ul>	
· Density:	Not determined.
· Relative density:	Not determined.
Relative gas density	Not applicable (solid).
· Particle characteristics	Not determined.
· 9.2 Other information	
· Information with regard to physical hazard classes	
Corrosive to metals	Void
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<ul> <li>Other safety characteristics</li> <li>Oxidising properties:</li> <li>Additional information</li> </ul>	none	
· Solids content:	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
- Aqueous solution reacts acidic.

--> forms heat

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Reacts with acids, alkalis and oxidizing agents

· 10.4 Conditions to avoid Strong heating (decomposition)

10.5 Incompatible materials: metals

· 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	· LD/LC50 values that are relevant for classification:		
CAS: 779	CAS: 7790-62-7 dipotassium disulfate		
Oral		2500 mg/kg (ATE) (Read across 7664-93-9: LD₅₀(rat) = 2140 mg/kg, ECHA)	
Inhalative	LC50/4h	0.5 mg/l (ATE) (Aerosol) (Read across 7664-93-9: LD₅₀ (rat, 4h) = ~ 850 mg/m³, ECHA)	

· Skin corrosion/irritation Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

Risk of blindness!

· 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 (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.

· Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· 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: No further relevant information available.
- Bacterial toxicity: sulphates toxic > 2.5 g/l
- Other information:
- Toxic for fish: Sulphates > 7 g/l
- · 12.2 Persistence and degradability No further relevant information available.

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#### · 12.3 Bioaccumulative potential

Pow = n-octanol/wasser partition coefficient log Pow < 1 = Does not accumulate in organisms.

CAS: 5808-22-0 Chromotropic acid disodium salt dihydrate

log Pow -4.48 (.) (calculated)

(anhydrous substance)

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

## **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.

SECTION 14: Transport informat	ion
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN3260
· 14.2 UN proper shipping name · ADR	3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (dipotassium disulfate)
· IMDG, IATA	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (dipotassium disulfate)
· 14.3 Transport hazard class(es)	
ADR	
and the second s	
· Class	8 (C2) Corrosive substances.
·Label	8
· IMDG, IATA	
· Class	8 Corrosive substances.
· Label	8
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	II
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· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Corrosive substances.
· Kemler Number:	80
· EMS Number:	F-A,S-B
· Stowage Category	А
· 14.7 Maritime transport in bulk according	y to IMO
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
· Transport category	2
<ul> <li>Tunnel restriction code</li> </ul>	E
·IMDG	
<ul> <li>Limited quantities (LQ)</li> </ul>	1 kg
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g

# **SECTION 15: Regulatory information**

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

· Poison	s Act UK
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· Regulated explosive	s precursors
None of the ingredien	ts is listed.
· Regulated poisons	
None of the ingredien	ts is listed.
· Reportable explosiv	es precursors
None of the ingredien	ts is listed.
· Reportable poisons	
None of the ingredien	ts is listed.
· Regulation (EU) 201	9/1148 on the marketing and use of explosives precursors not regulated
	649/2012 concerning the export and import of hazardous chemicals (PIC)
None of the ingredien	ts is listed.
Regulation (EC) No technology:	1334/2000 setting up a Community regime for the control of exports of dual-use items and
None of the ingredien	ts is listed.
· Regulation (EC) No	273/2004 on drug precursors
None of the ingredien	ts is listed.
<ul> <li>Regulation (EC) No in drug precursors</li> </ul>	111/2005 laying down rules for the monitoring of trade between the Community and third countrie
None of the ingredien	ts is listed.
· Regulation (EC) No	1005/2009 on substances that deplete the ozone layer:
None of the ingredien	ts is listed.
REGULATION (EU)	2019/1021 on persistent organic pollutants (POP)
None of the ingredien	ts is listed.
LIST OF SUBSTANC	ES SUBJECT TO AUTHORISATION (ANNEX XIV)
None of the ingredien	ts is listed.

This product does not contain any substances of very high concern above the legal concentration limit of  $\geq$  0.1% (w / w). (Contd. on page 8)

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· Substances of very high concern (SVHC) according to UK REACH

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- 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.
- · Information about limitation of use: Employment restrictions concerning young persons must be observed (94/33/EC).
- 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 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

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

#### Abbreviations and acronyms:

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)

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. 3: Acute toxicity – Category 3

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

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 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. ECHA: European CHemicals Agency http://echa.europa.eu

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