Tintometer[®] Group Water Testing



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

Printing date 15.11.2023

Version number 5 (replaces version 4)

Revision: 15.11.2023

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

1.1 Product identifier

Product name: Vario Chlorine Free - DPD F5 ml, F10 ml, F25 ml, PD 250

· Catalog number:

00530099, 00530189, 00530119, 005301459, 530110, 530113, 530090, 570118, 530180, 530183, 530182, 530145, 530093, 00570189, 00570184, 00570114, 00570188, 00570099, 00570094, 00570098, 00570119, 00570118, 570090, 570094, 570098, 570180, 570180, 570184, 570188, 570110, 570114

- 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[®] 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

The product is not classified as hazardous according to the GB CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:

EUH210 Safety data sheet available on request.

· 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.

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GB

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

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· Description: Mixture of organic and inorganic compounds

CAS: 139-33-3 Disodium dihydrogen ethylenediaminetetraacetate	40 50/
	≤2.5%
EINECS: 205-358-3 🚸 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 6283-63-2 N,N-diethylbenzene-1,4-diammonium sulphate (1:1)	≤2.5%
EINECS: 228-500-6 (1) Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

• Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · General information Instantly remove any clothing soiled by the product.
- After inhalation Supply fresh air.
- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, 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:
- irritating effects possible

allergic reactions

after swallowing of large amounts:

- sickness
- vomiting
- diarrhoea
- after absorption:
- thirst methaemoglobinaemia
- gastric pain general feeling of sickness
- disorder of electrolyte balance

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:
- Phosporus oxides (PxOx)
- Dipotassium oxide

Carbon monoxide (CO) and carbon dioxide (CO_2)

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained breathing apparatus.

- Wear full protective suit.
- 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 vapours.

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^{· 4.1} Description of first aid measures

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Advice for non-emergency personnel: No special measures required.
- 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: No special precautions necessary if used correctly.
- · Hygiene measures:

The usual precautionary measures should be adhered to general rules for handling chemicals.

- 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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

Derived No Effect Level (DNEL)

CAS: 139-	CAS: 139-33-3 Disodium dihydrogen ethylenediaminetetraacetate			
Oral	DNEL	25 mg/kg (Consumer / long-term / systemic effects)		
Inhalative	nhalative DNEL 2.5 mg/m³ (Worker / acute / local effects)			
		2.5 mg/m³ (Worker / acute / systemic effects)		
		2.5 mg/m³ (Worker / long-term / local effects)		
2.5 mg/m ³ (Worker / long-term /systemic effects)		2.5 mg/m ³ (Worker / long-term /systemic effects)		
1.5 mg/m³ (Consumer / acute / local effects)		1.5 mg/m³ (Consumer / acute / local effects)		
1.5 mg/m³ (Consumer / acute / systemic effects)		1.5 mg/m³ (Consumer / acute / systemic effects)		
		1.5 mg/m³ (Consumer / long-term / local effects)		
		1.5 mg/m³ (Consumer / long-term / systemic effects)		

• 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 protective equipment. See item 7.

[·] Components with limit values that require monitoring at the workplace:

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ndividual protection measures, such as personal protective equipment	
Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the ha	zardous
substances handled.	
Eye/face protection	
Safety glasses	
use against the effects of fumes / dust	
Jse safety glasses that have been tested and approved in accordance with government standards such as EN 166.	
land protection	
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	
/alue 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 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 prope	rties
Physical state	Solid.
Form:	Powder
· Colour:	White
· Odour:	Odourless
· Odour threshold:	Not applicable.
 Melting point/Freezing point: 	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
· Flammability	The product is not combustible.
	Product is not explosive.
• Lower and upper explosion limit	
Lower:	Not applicable.
Upper:	Not applicable.
· Flash point:	Not applicable.
	Not applicable.
	Not determined.
··· (··· 5 ··) ··· = · ·	6.3
· Kinematic viscosity	Not applicable (solid).
· Solubility	
	Soluble
 Partition coefficient n-octanol/water (log value) 	Not applicable (mixture).
	Not applicable.
Density and/or relative density	
_ •··•,	Not determined.
······································	Not determined.
	Not applicable (solid).
 Particle characteristics 	Not determined.
• 9.2 Other information	
· Information with regard to physical hazard classes	
	Void
· Other safety characteristics	
• Oxidising properties:	none
Additional information	
Solids content:	100 %
	- GB

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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
- Reacts with acids, alkalis and oxidizing agents
- --> forms heat

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

CAS: 139-33-3 Disodium dihydrogen ethylenediaminetetraacetate

Oral LD50 2000 mg/kg (rat)

(GESTIS)

CAS: 6283-63-2 N,N-diethylbenzene-1,4-diammonium sulphate (1:1)

LD50 497 mg/kg (rat) Oral (MERCK)

Dermal LD50 1100 mg/kg (ATE)

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

· Serious eye damage/irritation Based on available data, the classification criteria are not met.

· Information on components:

CAS 6283-63-2: DPD may cause allergic skin reaction

CAS: 139-33-3 Disodium dihydrogen ethylenediaminetetraacetate

Irritation of skin OECD 404 (rabbit: no irritation)

Irritation of eyes OECD 405 (rabbit: no irritation)

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

· Information on components:

CAS 6283-63-2: Sensitization possible in predisposed persons.

CAS: 139-33-3 Disodium dihydrogen ethylenediaminetetraacetate

Sensitisation OECD 406 (guinea pig: negative) (EPA OPP 81-6: Guinea pig maximisation test)

· 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.

· Information on likely routes of exposure

CAS 6283-63-2 4-Amino-N,N-diethylaniline sulfate:

In analogy to CAS 93-05-0 Amino-N.N-diethylaniline at workplaces the main route of exposure is via the respiratory tract and the skin.

"The high systemic potential of Amino-N.N-diethylaniline observed in animal experiments after oral application of relatively low doses permits the assumption of an effective resorption via the digestive tract that must also be assumed for humans." [GESTIS]

Additional toxicological information:

CAS: 6283-63-2 N,N-diethylbenzene-1,4-diammonium sulphate (1:1)

(source: GESTIS)

Main toxic effects of CAS 93-05-0 4-Amino-N,N-diethylaniline:

Acute: Irritative effects to the mucosae and the skin, sensitising effects;

Chronic: Skin diseases. Only insufficient information available on the systemic effects.

· 11.2 Information on other hazards

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

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· Other information

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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 1	2: Ecological information
· 12.1 Toxicity	
· Aquatic toxic	ity:
	3 Disodium dihydrogen ethylenediaminetetraacetate
EC50 (static)	>100 mg/l/48h (Daphnia magna) (DIN 38412 Teil 11) (BASF)
NOEC	≥36.9 mg/l (zebrafish) (35d, OECD 210) (BASF; read across)
EC50	>100 mg/l/72h (Scenedesmus subspicatus) (88/302/EWG, part C) (BASF; read across)
LC50 (static)	>100 mg/l/96h (bluegill) (BASF, read across)
• 12.3 Bioaccu Pow = n-octar log Pow 1-3 = log Pow < 1 = CAS: 139-33- log Pow -4.3	g/l nce and degradability No further relevant information available. mulative potential nol/wasser partition coefficient Not worth-mentioning accumulating in organisms. Does not accumulate in organisms. 3 Disodium dihydrogen ethylenediaminetetraacetate (.)
(BAS	SF) B-2 N,N-diethylbenzene-1,4-diammonium sulphate (1:1)
	(.) (calculated)
J.	ation factor (BCF)
	3 Disodium dihydrogen ethylenediaminetetraacetate
BCF 1.8 (blue	egill) (conc. 0.08 mg/l, 28d) registrant: read across CAS 13235-36-4)
 12.5 Results This mixture of persistent and 12.6 Endocrinities 12.7 Other action 	in soil No further relevant information available. of PBT and vPvB assessment loes not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very l very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006. ne disrupting properties The product does not contain substances with endocrine disrupting properties. Iverse effects 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

Disposal must be made according to official regulations.

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

· European waste catalogue

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

· Uncleaned packagings:

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

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

SECTION 14: Transport information	
 14.1 UN number or ID number ADR, IMDG, IATA 	Void
 14.2 UN proper shipping name ADR, IMDG, IATA 	Void
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA · Class	Void
 14.4 Packing group ADR, IMDG, IATA 	Void
· 14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user 	Not applicable.
 14.7 Maritime transport in bulk according to IM instruments 	O Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

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.
· Regulated poisons
None of the ingredients is listed.
· Reportable explosives precursors
None of the ingredients is listed.
· Reportable poisons
None of the ingredients is listed.
· 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 (PIC)
None of the ingredients is listed.
 Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:
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.
· Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:
None of the ingredients is listed.
· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)
None of the ingredients is listed.
· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
None of the ingredients is listed.

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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 ≥ 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: Not required.
- 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

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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 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 SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4

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

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. GESTIS- Stoffdatenbank (Substance Database, Germany) ECHA: European CHemicals Agency http://echa.europa.eu

** Data compared to the previous version altered.