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 6 (replaces version 5)

Revision: 15.11.2023

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

- 1.1 Product identifier
- Product name: Vario FE in MO RGT 2
- · Catalog number: 00530329, 530320, 530322, 00530321
- 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



Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory 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

- Hazard-determining components of labelling: citric acid
- · Hazard statements

H319 Causes serious eye irritation. H335 May cause respiratory irritation. phone: +49 (0)231 94510-0 e-mail: sales@lovibond.com

phone : +44 1980 664800 e-mail: SDS@lovibond.uk

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· Precautionary statements

Avoid breathing dust. P261 P280 Wear 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. P312 Call a POISON CENTER/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention.

· 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 compounds.

· Dangerous components:

Dangerous components.			
CAS: 77-92-9 EINECS: 201-069-1 Index No: 607-750-00-3 Reg.nr.: 01-2119457026-42-XXXX		Eye Irrit. 2, H319; STOT SE 3, H335	20–30%
CAS: 12125-02-9 EINECS: 235-186-4 Index No: 017-014-00-8 Reg.nr.: 01-2119487950-27-XXXX		Acute Tox. 4, H302; Eye Irrit. 2, H319	2.5–5%
• Additional information For the wo	ording of the listed hazard phrases refe	r to section 16	

contional information ⊢or 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 wash with water and soap and rinse thoroughly.
- 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 after inhalation: mucosal irritations, cough, shortness of breath after swallowing of large amounts: sickness vomitina diarrhoea pain Systemic effects: narcotic conditions respiratory paralysis disorder of electrolyte balance Danger Risk of corneal clouding. Danger of system failure.

• 4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available. GB

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SECTION 5: Firefighting measures

5.1 Extinguishing media

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- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture
- mixture with combustible ingredients
- Formation of toxic gases is possible during heating or in case of fire.
- 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.

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
- Avoid breathing dust.
- 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: Prevent formation of dust.
- · Hvgiene measures:
- Do not inhale dust / smoke / mist.
- 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.
- Unsuitable material for container: metals, metal alloys · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Protect from heat and direct sunlight.
- Store in cool, dry conditions in well sealed containers.
- Protect from the effects of light.
- Protect from humidity and keep away from water.
- This product is hygroscopic.
- Recommended storage temperature: 20°C +/- 5°C
- · 7.3 Specific end use(s) No further relevant information available.

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	ol parameters
-	ents with limit values that require monitoring at the workplace:
	25-02-9 ammonium chloride
WEL (Gre	at Britain) Short-term value: 20 mg/m³ Long-term value: 10 mg/m³
Regulator	ry information WEL (Great Britain): EH40/2020
DNELs Derived N	o Effect Level (DNEL)
CAS: 1212	25-02-9 ammonium chloride
Oral	DNEL 55.2 mg/kg (Consumer / long-term / systemic effects)
Dermal	DNEL 128.9 mg/kg (Worker / long-term /systemic effects)
	55.2 mg/kg (Consumer / long-term / systemic effects)
Inhalative	DNEL 43.97 mg/m ³ (Worker / long-term /systemic effects)
	9.4 mg/m ³ (Consumer / long-term / systemic effects)
Methods fe DIN EN 68	ended monitoring procedures: for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and 39.
PNECs Predicted	No Effect Concentration (PNEC)
	25-02-9 ammonium chloride
	.1 mg/l (Sewage treatment plant)
	D25 mg/l (Marine water)
	43 mg/l (Aquatic intermittent release)
	25 mg/l (Fresh water)
	.7 mg/kg (Soil)
	09 mg/kg (Marine sediment)
0.9	9 mg/kg (Fresh water sediment)
Additiona	Il information: The lists that were valid during the compilation were used as basis.
8.2 Expos	sure controls
-	
	ing measures: measures and appropriate working operations should be given priority over the use of personal protective equipme ⁷
Protective substance Eye/face Safety gla	
Hand prof Protective	gloves.
	e skin protection by use of skin-protecting agents is recommended. of gloves apply skin-cleaning agents and skin cosmetics. o f gloves
nitrile rubb	
	on time of glove material
	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.
	n protection (body protection): Protective work clothing.
Breathing	gequipment: Use breathing protection against the effects of fumes/dust/aerosol.
Docommo	ended filter device for short term use: Filter P2
Recomme	(Contd. on pa

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· Environmental exposure controls Do not allow product to reach sewage system or water bodies.

SECTION 9: Physical and chemical proper	ties
• 9.1 Information on basic physical and chemical pro	perties
Physical state	Solid.
Form:	Powder
· Colour:	Beige
· Odour:	Odourless
· Odour threshold:	Not applicable.
 Melting point/Freezing point: 	Not determined.
 Boiling point or initial boiling point and boiling range 	ge Not determined.
· Flammability	The product is not combustible.
· Explosive properties:	Risk of dust explosion if enriched with fine dust in presence of air
• Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not applicable (solid).
· Flash point:	Not applicable.
 Auto-ignition temperature: 	Not applicable (solid).
 Decomposition temperature: 	>175°C (CAS 77-92-9)
[.] pH (35.6 g/l) at 20°C	3.5
Kinematic viscosity	Not applicable (solid).
· Solubility	
· Water:	Soluble
 Partition coefficient n-octanol/water (log value) 	Not applicable (mixture).
· Vapour pressure:	Not applicable (solid).
 Density and/or relative density 	
· Density at 20°C:	~1.1 g/cm³
· 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
 Other safety characteristics 	
· Oxidising properties:	none
Additional information	
· Solids content:	100 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity Dust can combine with air to form an explosive mixture.

· 10.2 Chemical stability Stable at ambient temperature (room temperature).

10.3 Possibility of hazardous reactions

Aqueous solution reacts acidic.

Aqueous solution reacts with metals.

Reacts with reducing agents

Reacts with oxidizing agents

Citric acid: Incompatible with bases, strong oxidising agents, amines. Contact with metal nitrates causes explosion hazard. Attacks aluminium, copper, zinc and their alloys - in case of moisture.

· 10.4 Conditions to avoid Strong heating (decomposition)

· 10.5 Incompatible materials:

metals

aluminium, copper, zinc, metal ions

· 10.6 Hazardous decomposition products: see section 5

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Pro

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duct na	ime: Va	ario FE in M	O RGT 2
SECT	ION 1'	1: Toxicolo	gical information
11.1 Inf	ormatio	on on hazard	classes as defined in Regulation (EC) No 1272/2008
Acute t	oxicity	Based on ava	ilable data, the classification criteria are not met.
	-		evant for classification:
CAS: 7	7-92-9 (citric acid	
Oral	LD50	3000 mg/kg ((IUCLID)	rat)
Dermal	LD50.	>2000 mg/kg (limit test: the	(rat) ere were no deaths)
		2-9 ammoniur	
Oral	LD50	1410 mg/kg ((Merck)	rat) (OECD 1410)
Serious Informa Citric ac A 0.5% Citric Ac	s eye da ation or cid: A si solutior cid caus	amage/irritati n components ngle drop of a n held in conta sed mild irritati	 sed on available data, the classification criteria are not met. on Causes serious eye irritation. s: 2% or 5% solution in water causes little or no irritation. ict with the eye causes irreversible tissue damage to the cornea. on when 500 mg was tested on rabbit skin in a 24-hour test. tre for Occupational Health and Safety)
•		citric acid	
Irritatior	n of skin	OECD 404	(rabbit: no irritation)
Irritatior	of eye	s OECD 405	(rabbit: severe irritations)
CAS: 12	2125-02	2-9 ammoniur	n chloride
Irritatior	n of eye	s OECD 405	(rabbit: irritation)
Respira	atory or	skin sensitis	sation Based on available data, the classification criteria are not met.
		n component	5:
		citric acid	
			uinea pig: negative) (EPA OPP 81-6: Guinea pig maximisation test)
		2-9 ammoniur	
Sensitis	ation C	DECD 406 (g	uinea pig: negative) (EPA OPP 81-6: Guinea pig maximisation test)
Carcino	ogenici	ty Based on a	sed on available data, the classification criteria are not met. vailable data, the classification criteria are not met. d on available data, the classification criteria are not met.
OECD 4 OECD 4 OECD 4	414: Tei 473: Mu 471, 474		sting
		citric acid	
		- , ,	erial Reverse Mutation Test - Ames test)
CAS: 12	2125-02	2-9 ammoniur	n chloride

OECD 471 (negative)

(Escherichia coli / Salmonella typhimurium)

• STOT (specific target organ toxicity) -single exposure May cause respiratory irritation.

• 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

Under workplace conditions, inhalative exposure is the main route of exposure of citric acid. Inhalative exposure is possible in the form of dust or aerosols of aqueous solutions, although the warning irritant effect means that inhalation of very high concentrations is only to be expected accidentally.

Irrespective of this, citric acid is mainly ingested orally with food. [GESTIS]

In occupational use, exposure to ammonium chloride is to be expected, particularly in the case of inhalative exposure to mist or smoke, possibly also dust.

Due to the physico-chemical properties, a low level of dermal absorption is assumed.

In the case of oral intake, ammonium chloride is effectively absorbed via the gastrointestinal tract. [GESTIS]

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	onal toxicological information:
	77-92-9 citric acid
Nair Acut relev	urce: GESTIS) n toxic effects: e: Irritant effect on the eyes and upper respiratory tract; no evidence of systemic toxic effects under occupationally /ant exposure conditions nic: irritative effects on mucous membranes and skin.
Ena	mel damage, dermatitis (Merck)
Dep	ner information: ending on the pH value, dust or concentrated aqueous solutions are highly irritating to corrosive to the eye.
	12125-02-9 ammonium chloride
Nair acut	urce: GESTIS) n toxic effects: e: pronouced irritation of the eyes, mucous membranes and respiratory tract, slightly irritating to the skin; after high ora
chro	es: acidosis nic: irritation of the eyes, mucous membranes and respiratory tract, slightly irritating to the skin; high oral doses: systemic effects with metabolic acidosis and impairment of general well-being
Endo	nformation on other hazards crine disrupting properties The product does not contain substances with endocrine disrupting properties. information
	demonstration and the evolution
Accor	dangerous properties can not be excluded. ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated.
Accore Chapt	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in er 3 have not been thoroughly investigated.
Accore Chapt	ling to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i
Accore Chapt SEC	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated.
Accore Chapt SEC 12.1 T	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in er 3 have not been thoroughly investigated. FION 12: Ecological information
Accord Chapt SEC 12.1 T Aquat	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated. TION 12: Ecological information
Accord Chapt SEC 12.1 T Aquat CAS: EC50	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated. TION 12: Ecological information foxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID)
Accord Chapt SEC 12.1 T Aquat CAS: EC50 EC5	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK)
Accord Chapt SEC 12.1 T Aquat CAS: EC50 EC5 _C50	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID)
Accord Chapt SEC 12.1 T Aquat CAS: EC50 EC5 _C50 CAS:	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned is er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID) 12125-02-9 ammonium chloride
Accord Chapt SEC 12.1 T Aquat CAS: EC50 EC5 CAS: EC50	ting to the information available to us, the chemical, physical and toxicological properties of the substances mentioned is er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID) 12125-02-9 ammonium chloride >100 mg/l/48h (Daphnia magna)
Accord Chapt SEC 12.1 T Aquat CAS: EC50 EC5 CAS: EC50	ding to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID) 12125-02-9 ammonium chloride
Accord Chapt SEC 12.1 T Aquat CAS: EC50 EC50 CAS: EC50 CS0	ting to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID) 12125-02-9 ammonium chloride >100 mg/l/48h (Daphnia magna) 42.91 mg/l/96h (rainbow trout)
Accord Chapt SEC 12.1 T Aquat CAS: EC50 EC50 CAS: EC50 CAS: EC50 CAS: EC50 CAS:	ting to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID) 12125-02-9 ammonium chloride >100 mg/l/48h (Daphnia magna) 42.91 mg/l/96h (rainbow trout) (Merck)
Accord Chapt Chapt 12.1 T Aquat CAS: EC50 EC50 CAS: EC50 CAS: EC50 CAS: EC50 CAS:	ting to the information available to us, the chemical, physical and toxicological properties of the substances mentioned is er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID) 12125-02-9 ammonium chloride >100 mg/l/48h (Daphnia magna) 42.91 mg/l/96h (rainbow trout) (Merck) rial toxicity: 77-92-9 citric acid
Accord Chapt Chapt I2.1 T Aquat CAS: EC50 EC50 CAS: EC50 CAS: EC50 CAS: EC50 CAS: EC50 CAS: EC50	ting to the information available to us, the chemical, physical and toxicological properties of the substances mentioned is er 3 have not been thoroughly investigated. FION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID) 12125-02-9 ammonium chloride >100 mg/l/48h (Daphnia magna) 42.91 mg/l/96h (rainbow trout) (Merck) rial toxicity: 77-92-9 citric acid >10000 mg/l (Pseudomonas putida) (16h (Lit.))
Accord Chapt Chapt I2.1 T Aquat CAS: EC50 EC50 CAS: EC50	ting to the information available to us, the chemical, physical and toxicological properties of the substances mentioned i er 3 have not been thoroughly investigated. TION 12: Ecological information oxicity ic toxicity: 77-92-9 citric acid ~120 mg/l (Daphnia magna) (72 h) (IUCLID) 485 mg/l (Entosiphon sulcatum) (72h) (MERCK) 440–760 mg/l/96h (gold orfe) (IUCLID) 12125-02-9 ammonium chloride >100 mg/l/48h (Daphnia magna) 42.91 mg/l/96h (rainbow trout) (Merck) rial toxicity: 77-92-9 citric acid

· 12.2 Persistence and degradability

CAS: 77-92-9 citric acid

OECD 301 B 97 % / 28 d (readily biodegradable) (CO2 Evolution Test)

OECD 302 B 98 % / 2 d (readily eliminated from water) (Zahn-Wellens / EMPA Test)

12.3 Bioaccumulative potential

Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

CAS: 77-92-9 citric acid

log Pow -1.72 (.) (OECD 117, 20°C)

CAS: 12125-02-9 ammonium chloride

log Pow -4.37 (.)

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- · 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 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.
- · 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: Marine pollutant: 	No
 14.6 Special precautions for user 	Not applicable.
 14.7 Maritime transport in bulk according to IMC instruments 	D 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. (Contd. on page 9)

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· R	egulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)
	one of the ingredients is listed.
	egulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and echnology:
Ν	one of the ingredients is listed.
R	egulation (EC) No 273/2004 on drug precursors
N	one of the ingredients is listed.
	egulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countr n drug precursors
Ν	one of the ingredients is listed.
R	egulation (EC) No 1005/2009 on substances that deplete the ozone layer:
N	one of the ingredients is listed.
R	EGULATION (EU) 2019/1021 on persistent organic pollutants (POP)
N	one of the ingredients is listed.
L	IST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
N	one of the ingredients is listed.

This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w). Substances of very high concern (SVHC) according to UK REACH

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.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 65

· 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.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Abbreviations and acronyms:

EC50: effective concentration, 50 percent (in vivo) 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)

PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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Revision: 15.11.2023

Product name: Vario FE in MO RGT 2

SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 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 GESTIS- Stoffdatenbank (Substance Database, Germany) IUCLID (International Uniform Chemical Information Database)

• * Data compared to the previous version altered.

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