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

Printing date 18.07.2018 Version number 28 Revision: 03.07.2018

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

- · 1.1 Product identifier
- · Product name: Vario Ammonia Salicylate F10 ml
- · Catalog number: 00531389, 531380, 4531380, 531382
- · 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

Tintometer GmbH Division AQUALYTIC® Schleefstr. 12 44287 Dortmund Made in Germany www.aqualytic.de

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

 Informing department: e-mail: sds@tintometer.de 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



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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.
- · Hazard pictograms



· Signal word Warning

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· Hazard-determining components of labelling:

sodium salicylate

sodium nitroprusside dihydrate

· Hazard statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

· Precautionary statements

P280 Wear protective gloves / eye protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsina.

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.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of organic and inorganic compounds

· Dangerous components:				
	CAS: 54-21-7 EINECS: 200-198-0	sodium salicylate	♠ Acute Tox. 4, H302; Eye Irrit. 2, H319	40-50%
	CAS: 13755-38-9 EINECS: 238-373-9	sodium nitroprusside dihydrate	Acute Tox. 3, H301	0.1-≤2.5%

· 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.
- · 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.

Seek medical treatment.

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

irritations

absorption

after inhalation:

mucous membrane irritation

coughing

breathing difficulty

after swallowing:

sickness

vomiting

diarrhoea

after swallowing of large amounts:

tinnitus (ringing in the ears)

headache

dizziness

coma

fever

disorientation

drop in blood pressure

disorder of electrolyte balance

cramps

· Danger Danger of system failure.

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• 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.
- \cdot 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.

Hydrogen chloride (HCI)

nitrous gases

Nitrogen oxides (NOx)

Sulphur oxides (SOx)

cyanide compounds, sodium monoxide

- · 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.

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.

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:

Use only in well ventilated areas.

Prevent formation of dust.

· Hygiene measures:

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
- · Storage
- · Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Protect from the effects of light.

Store under dry conditions.

Protect from humidity and keep away from water.

This product is hygroscopic.

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- · 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.

Derived No Effect Level (DNEL)

CAS: 54-2	CAS: 54-21-7 sodium salicylate		
Oral	DNEL	4 mg/kg (Worker / long-term /systemic effects)	
Dermal	DNEL	4 mg/kg (Worker / long-term /systemic effects)	
		2 mg/kg (Consumer / long-term / systemic effects)	
Inhalative	DNEL	7.051 mg/m³ (Worker / long-term /systemic effects)	
		1.738 mg/m³ (Consumer / long-term / systemic effects)	

· Recommended monitoring procedures:

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and **DIN EN 689.**

- · 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.

- · Personal protective equipment
- · Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter P2
- · Protection of hands:

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 observed.

- · Eye protection: Safety glasses
- · Body protection: Protective work clothing.
- · Limitation and supervision of exposure into the environment: Avoid release to the environment.

SECTION 9: Phy	ysical and chemical	properties

9.1 Information on basic physical and chemical properties Appearance:		
Form / Physical state:	Powder	
Colour:	Whitish	
· Odour: · Odour threshold:	Odourless Not applicable	
Cucui tinconcia.	Not applicable	
· pH-value (50 g/l) at 20°C:	8.1	
 Melting point/Freezing point: Initial boiling point and boiling range: 	Not determined: Not determined	
· Flash point:	Not applicable	
· Flammability (solid, gas):	The product is not combustible.	

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· Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not self-igniting.
Explosive properties: Flammability or explosive limits:	Product is not explosive.
Lower: Upper:	Not applicable Not applicable
· Oxidising properties:	none
 Vapour pressure: Density at 20°C: Relative density: Vapour density: Evaporation rate: 	Not applicable. 1.25 g/cm³ Not determined. Not applicable. Not applicable.
· Solubility(ies): Water:	Soluble
· Partition coefficient: n-octanol/water:	Not applicable.
· Viscosity:	Not applicable.
· Solvent content: Organic solvents: Solids content:	0.0 % 100.0 %
· 9.2 Other information	No further relevant information available.

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

Contact with acids releases toxic gases

Reacts with acids, alkalis and oxidizing agents

Reacts with oxidizing agents

- --> forms heat
- · 10.4 Conditions to avoid Strong heating (decomposition)
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

hydrogen cyanide (prussic acid HCN)

see section 5

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Classification according to calculation procedure:

Harmful if swallowed.

Harriar in owniewed.				
· Acute toxicity estimate (ATE _(MIX)) - Calculation method:				
Oral C	Oral CLP ATE _(MIX) 1560 mg/kg (.)			
· LD/LC	50 value	es that are relevant for classification:		
CAS: 5	4-21-7	sodium salicylate		
Oral	LD50	930 mg/kg (rat) (RTECS)		
	LDLo	700 mg/kg (human) (RTECS)		
CAS: 7	647-14-	5 sodium chloride		
Oral	LD50	3000 mg/kg (rat) (RTCES)		
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| LD50. | 12 mg/kg (child) |
| Dermal | LD50. | 12 mg/kg (rabbit) |
| (RTECS) |
| CAS: 13755-38-9 sodium nitroprusside dihydrate |
| Oral | LD50 | 99 mg/kg (rat) |
| (RTECS, anhydrous substance) |

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Information on components:

CAS 54-21-7: chronic: dermatitis

CAS: 7647-14-5	CAS: 7647-14-5 sodium chloride			
Irritation of skin	OECD 404	(rabbit: no irritation) (ECHA)		
Irritation of eyes	OECD 405	(rabbit: no irritation) (ECHA)		

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) The following statements refer to the mixture:
- · 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:

The following complies to cyanogen compounds / nitriles in general:

Utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration.

The following applies to soluble iron compounds: nausea and vomiting after swallowing. The absorption of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys.

CAS 54-21-7: skin resorption (effects similar to those of ingestion)

CAS 54-21-7: chronic: central nervous system effects

SECTION 12: Ecological information

· 12.1 Toxicity

·-···· ·				
· Aquat	· Aquatic toxicity:			
CAS:	CAS: 54-21-7 sodium salicylate			
EC10	304 mg/l (Daphnia magna) (24) (ECOTOX)			
LC50	1370 mg/l/96h (fathhead minnow) (ECOTOX)			
CAS:	CAS: 7647-14-5 sodium chloride			
EC50	1000 mg/l/48h (Daphnia magna) (IUCLID)			
LC50	7650 mg/l/96h (fathhead minnow) (IUCLID)			
CAS: 13755-38-9 sodium nitroprusside dihydrate				
EC50	50 1 mg/l/24h (Daphnia magna)			
LC50	LC50 0.05 mg/l (fish)			

Other information:

Toxic for fish:

the following applies to dissolved iron compounds in general:

toxic as from 0.9 mg/l at pH 6.5 - 7.5

lethal as from 1.0 mg/l at pH 5.5 - 6.7

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential

Pow = n-octanol/wasser partition coefficient

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log Pow < 1 = Does not accumulate in organisms.

CAS: 54-21-7 sodium salicylate

log Pow -1.43 (.) (calculated)

- · 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 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 · ADR, IMDG, IATA	Void
·	Volu
· 14.2 UN proper shipping name	V-:-
· ADR	Void
· 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 Transport in bulk according to Annex II of Marpol an	d
the IBC Code	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
- · Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

- · Directive 2012/18/EU (SEVESO III):
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Information about limitation of use:

Observe employment restrictions for pregnant and nursing mothers according to the 'mother protection guideline' (92/85/EEC) . Employment restrictions concerning young persons must be observed.

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· 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.

· Relevant phrases

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Training hints Provide adequate information, instruction and training for operators.

· 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: hallf maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods

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

DOT: US Department of Transportation

IATA: International Air Transport Association

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

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Data arise from safety data sheets, reference works and literature.

ECOTOX Database

RTECS (Registry of Toxic Effects of Chemical Substances)

GB