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

Printing date 05.07.2018

Version number 18

Revision: 05.07.2018

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

- · 1.1 Product identifier
- Product name: <u>Ammonium Diluent Reagent LR</u>
- · Catalog number: 251997
- · 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: Xylem Analytics Germany GmbH WTW Dr.-Karl-Slevogt-Straße 1 82362 Weilheim Germany Tel. +49 881 183-0

· Informing department: E-Mail: Info.WTW@Xyleminc.com

· 1.4 Emergency telephone number: Chemtrec (USA & Canada) 800-424-9300 (INTERNATIONAL) 001 703-527-3887

## **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 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.

## **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · Description: aqueous solution

· Dangerous components:				
CAS: 54-21-7 EINECS: 200-198-0	sodium salicylate	1 Acute Tox. 4, H302; Eye Irrit. 2, H319	2.5-5%	
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.

· After skin contact Instantly wash with water and soap and rinse thoroughly.

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## · After eye contact

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- 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:
- irritations absorption after swallowing: sickness vomiting
- after swallowing of large amounts: tinnitus (ringing in the ears)
- dizziness
- headache coma
- 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.
- 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**

- $\cdot$  6.1 Personal precautions, protective equipment and emergency procedures
- · Advice for non-emergency personnel: Wear protective equipment. Keep unprotected persons away.
- · Advice for emergency responders: Protective equipment: see section 8
- · 6.2 Environmental precautions:
- Do not allow product to reach sewage system or water bodies.
- Dilute with much water.
- 6.3 Methods and material for containment and cleaning up:
- Ensure adequate ventilation.

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:
- Prevent formation of aerosols.
- 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.

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- 7.2 Conditions for safe storage, including any incompatibilities
- Storage

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- · 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:

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:

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

DNLL3		
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/m <sup>3</sup> (Worker / long-term /systemic effects)
		1.738 mg/m <sup>3</sup> (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.

#### · Personal protective equipment

- · Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter P1
- · Protection of hands:

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 observed.

- · Eve protection:
- Safety glasses

use against the effects of fumes / dust

Body protection: Protective work clothing.

· Limitation and supervision of exposure into the environment: No further relevant information available.

SECTION 9: Physical and chemical properties			
<ul> <li>9.1 Information on basic physic</li> <li>Appearance: Form / Physical state: Colour:</li> </ul>	cal and chemical properties Fluid Colourless		
· Odour: · Odour threshold:	Odourless Not applicable		
· pH-value at 20°C:	10.4		

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#### Product name: Ammonium Diluent Reagent LR

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<ul> <li>Melting point/Freezing point:</li> <li>Initial boiling point and boiling range:</li> </ul>	Not determined : ~100°C
· Flash point:	Not applicable
<ul> <li>Flammability (solid, gas):</li> <li>Ignition temperature:</li> </ul>	Not applicable. Not applicable
· 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
<ul> <li>Vapour pressure:</li> <li>Density at 20°C:</li> <li>Relative density:</li> <li>Vapour density:</li> <li>Evaporation rate:</li> </ul>	Not determined. ~1 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
<ul> <li>Solubility(ies):</li> <li>Water:</li> <li>Partition coefficient: n-octanol/water:</li> </ul>	Fully miscible
· Viscosity:	Not determined.
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>Water:</li> <li>Solids content:</li> </ul>	0.0 % > 95 % < 5 %
· 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 No further relevant information available.
- 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 toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

#### CAS: 54-21-7 sodium salicylate

Oral LD50 930 mg/kg (rat) (RTECS) LDLo 700 mg/kg (human) (RTECS)

· Primary irritant effect:

· 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 54-21-7: chronic: dermatitis

· 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:

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- · 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:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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

#### Aquatic toxicity:

#### CAS: 54-21-7 sodium salicylate

EC10 304 mg/l (Daphnia magna) (24)

(ECOTOX) LC50 1370 mg/l/96h (fathhead minnow)

(ECOTOX)

• 12.2 Persistence and degradability No further relevant information available.

- 12.3 Bioaccumulative potential
- Pow = n-octanol/wasser partition coefficient

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

Harmful effect due to pH shift.

Neutralisation possible in waste water treatment plants.

Avoid transfer into the environment.

#### · Water hazard:

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.

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

#### · 13.1 Waste treatment methods

· Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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

SECTION 14: Transport information	
· 14.1 UN-Number	

· ADR, IMDG, IATA

Void



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<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG, IATA</li> </ul>	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.
<ul> <li>14.7 Transport in bulk according to Annex II on the IBC Code</li> </ul>	of Marpol and 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: 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.

#### **Relevant phrases**

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 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 (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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

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

Sources

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

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## RTECS (Registry of Toxic Effects of Chemical Substances )

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

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Revision: 27.03.2019

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

- 1.1 Product identifier
- · Product name: Vario Ammonia Cyanurate F5 ml
- SDS valid from Lot: T09A
- · Catalog number: 251997, 251998
- · 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: Xylem Analytics Germany GmbH ŴТW Dr.-Karl-Slevogt-Straße 1 D 82362 Weilheim Germany Tel. +49 881 183-0

· Informing department: E-Mail: Info.WTW@Xyleminc.com

· 1.4 Emergency telephone number: Chemtrec (USA & Canada) 800-424-9300 (INTERNATIONAL) 001 703-527-3887

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008



H318 Causes serious eye damage.

Eye Dam. 1

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### · 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 Danger
- · Hazard-determining components of labelling:
- lithium hydroxide monohydrate
- Hazard statements
- H315 Causes skin irritation.
- H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
- P280 Wear protective gloves / eye protection.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately call a POISON CENTER/doctor.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

• 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:			
	lithium hydroxide monohydrate	3–<5%	
EINECS: 215-183-4	📀 Skin Corr. 1A, H314; Eye Dam. 1, H318; 🚸 Acute Tox. 4, H302		
CAS: 51580-86-0	sodium dichloroisocyanurate, dihydrate	0.25-<2.5%	
EINECS: 220-767-7	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2,		
	H319; STOT SE 3, H335		
<ul> <li>Additional information For the wording of the listed hazard phrases refer to section 16.</li> </ul>			

## **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 and call for doctor for safety reasons.
- 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:
- Irritation and corrosion after inhalation: coughing breathing difficulty damage to the affected mucous membranes possible after swallowing: strong caustic effect. absorption after absorption of large amounts: sickness vomiting ataxia (impaired locomotor coordination) **CNS** disorders disorder of electrolyte balance cramps Danger Danger of system failure. Danger of gastric perforation. • 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

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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
- 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:
- Hydrogen chloride (HCI)
- nitrous gases
- LiOx
- · 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.
- Inform respective authorities in case product reaches water or sewage system.
- 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.
- Provide suction extractors if dust is formed.
- · 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
- · Storage
- 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.
- Do not store together with acids.
- · 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.
- Protect from humidity and keep away from water.
- This product is hygroscopic.

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#### · Recommended storage temperature: 10-25°C

· 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

## · 8.1 Control parameters

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

CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

WEL (Great Britain) Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup> Sen; as -NCO

· Regulatory information WEL (Great Britain): EH40/2018

· 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:

Check protective gloves prior to each use for their proper condition. Protective gloves.

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 observed.

- Eye protection: Tightly sealed safety glasses.
- · Body protection: Protective work clothing.
- $\cdot$  Limitation and supervision of exposure into the environment:

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 properties · Appearance:				
Form / Physical state:	Powder			
Colour:	White			
· Odour:	Irritant			
· Odour threshold:	Not determined.			
· pH-value (25 g/l) at 20°C:	12.2			
<ul> <li>Melting point/Freezing point:</li> <li>Initial boiling point and boiling range:</li> </ul>	Not determined Not determined			
· Flash point:	Not applicable			
· Flammability (solid, gas):	The product is not combustible.			
· Decomposition temperature:	Not determined.			
· Auto-ignition temperature:	Product is not self-igniting.			
· Explosive properties:	Product is not explosive.			
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· Flammability or explosive limits:		
Lower:	Not applicable	
Upper:	Not applicable	
· Oxidising properties:	none	
· Vapour pressure:	Not applicable.	
Density:	Not determined	
<ul> <li>Relative density:</li> </ul>	Not determined.	
<ul> <li>Vapour density:</li> </ul>	Not applicable.	
· Evaporation rate:	Not applicable.	
· Solubility(ies):		
Water:	Soluble	
· Partition coefficient: n-octanol/wat	er: Not determined.	
· Viscosity:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
Solids content:	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

Aqueous solution reacts alkaline. Aqueous solution reacts with metals.

Reacts with light alloys in the presence of moisture to form hydrogen Corrodes aluminium

Reacts with acids

· 10.4 Conditions to avoid Exposure to moisture.

## 10.5 Incompatible materials:

organic substances aluminium

zinc

#### · 10.6 Hazardous decomposition products:

Chlorine compounds

In case of fire: see section 5.

## **SECTION 11: Toxicological information**

## · 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

CAS: 1310-66-3 lithium hydroxide monohydrate		
Oral	LD50	368 mg/kg (rat) (Registrant, ECHA)
	LC50.	>6.15 mg/l/4h (rat) (Registant, ECHA)
CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate		
Oral	LD50	1671 mg/kg (rat) (EPA OPP 81-1) (Registrant, ECHA)
Dermal	LD50	>5000 mg/kg (rat) (EPA OPP 81-2) (Registrant, ECHA)

· Skin corrosion/irritation Causes skin irritation.

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#### · Serious eye damage/irritation

Causes serious eye damage. Risk of corneal clouding.

## · Information on components:

#### CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

Irritation of eyes OECD 405 (rabbit: burns)

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

· Information on components:

CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

Sensitisation OECD 406 (guinea pig: negative) (Magnusson / Klingman)

- 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.

 $\cdot$  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 components:

#### CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

OECD 471 (negative) (Bacterial Reverse Mutation Test - Ames test)

(Escherichia coli)

· Additional toxicological information:

The following applies to lithium compounds in general:

after absorption: CNS disorders, ataxia (impaired locomotor coordination) due to disturbed electrolyte balance

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

## **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquati	· Aquatic toxicity:		
CAS: 5	CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate		
EC50	0.28 mg/l/48h (Daphnia magna) (ECOTOX)		
EC50	>5000 mg/l/96h (Algeal toxicity) (OECD 201)		
NOEC	2600 mg/l (Daphnia magna) (OECD 2011, 21d) (Registrant, ECHA)		
	756 mg/l (fish) (28d) (Registrant, ECHA)		
	1000 mg/l (rainbow trout) (OECD 2015, 28d) (Registrant, ECHA)		
LC50	0.25 mg/l/96h (rainbow trout) (ECOTOX)		
· Other i	· Other information:		
	The following applies for lithium compounds in general: fish toxic from 100 mg/l, Daphnia toxic from 16 mg/l, plants toxic from 0,2 mg/l		

#### · 12.2 Persistence and degradability

CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

OECD 306 4 (.) (Biodegradation Test – Seawater)

• 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 Other adverse effects

Harmful effect due to pH shift.

Avoid transfer into the environment.

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#### Product name: Vario Ammonia Cyanurate F5 ml

#### · 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

• **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	
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR, IMDG, IATA</li> </ul>	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 ar the IBC Code	nd Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	

## **SECTION 15: Regulatory information**

 $\cdot$  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):

 $\cdot$  Named dangerous substances - ANNEX I None of the ingredients is listed.

· Regulation (EU) No 649/2012

None of the ingredients is listed.

National regulations

· Information about limitation of use: Employment restrictions concerning young persons must be observed.

· 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.

<sup>·</sup> Uncleaned packagings:

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#### Product name: Vario Ammonia Cyanurate F5 ml

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#### Relevant phrases

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· 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 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

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4 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 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

#### Sources

Data arise from safety data sheets, reference works and literature. ECHA: European CHemicals Agency http://echa.europa.eu **ECOTOX** Database

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

Printing date 04.04.2019

Version number 30

Revision: 04.04.2019

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

- · 1.1 Product identifier
- Product name: Vario Ammonia Salicylate F5 ml
- SDS valid from Lot: T09A
- · Catalog number: 251997, 251998
- · 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: Xylem Analytics Germany GmbH WTW Dr.-Karl-Slevogt-Straße 1 D 82362 Weilheim Germany Tel. +49 881 183-0

· Informing department: E-Mail: Info.WTW@Xyleminc.com

· 1.4 Emergency telephone number: Chemtrec (USA & Canada) 800-424-9300 (INTERNATIONAL) 001 703-527-3887

## **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



Acute Tox. 4H302Harmful if swallowed.Eye Irrit. 2H319Causes 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 · 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 rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

• 2.3 Other hazards No further relevant information available.

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#### Product name: Vario Ammonia Salicylate F5 ml

#### · 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 contains organic compounds.

· Dangerous components:			
CAS: 54-21-7	sodium salicylate	Acute Tox. 4, H302; Eye Irrit. 2, H319	60–70%
EINECS: 200-198-0			
CAS: 13755-38-9	sodium nitroprusside dihydrate	🛞 Acute Tox. 3, H301	≤2.5%
EINECS: 238-373-9		•	
Additional information Fronthe counding of the listed beyond above a structure structure of a			

· 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: mucosal irritations, Cough, Shortness of breath after swallowing: sickness vomiting diarrhoea after swallowing of large amounts: tinnitus (ringing in the ears) headache dizziness disorientation drop in blood pressure disorder of electrolyte balance fever cramps coma · Danger Danger of system failure.

• 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.

nitrous gases

Nitrogen oxides (NOx)

cyanide compounds, sodium monoxide

- 5.3 Advice for firefighters
- Protective equipment:

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

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#### Product name: Vario Ammonia Salicylate F5 ml

#### · 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.
- 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 events

Avoid contact with the eyes. Avoid contact with the skin. 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:
- 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: 10-25°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.

· DNELs

Derived No Effect Level (DNEL)

Bonnoan			
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/m <sup>3</sup> (Worker / long-term /systemic effects)	
		1.738 mg/m <sup>3</sup> (Consumer / long-term / systemic effects)	
		(Contd. on page 4)	í.

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#### Product name: Vario Ammonia Salicylate F5 ml

(Contd. of page 3)
• 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.
<ul> <li>Personal protective equipment</li> <li>Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.</li> <li>Recommended filter device for short term use: Filter P2</li> <li>Protection of hands: Protective gloves.</li> <li>Preventive skin protection by use of skin-protecting agents is recommended.</li> <li>After use of gloves apply skin-cleaning agents and skin cosmetics.</li> <li>Material of gloves nitrile rubber, NBR</li> </ul>
Recommended thickness of the material: $\geq 0.11 \text{ mm}$ • <b>Penetration time of glove material</b> 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:

Do not allow product to reach sewage system or water bodies.

SECTION 9: Physical and chemical properties		
<ul> <li>9.1 Information on basic physical and</li> <li>Appearance:</li> <li>Form / Physical state:</li> </ul>	chemical properties Powder	
Colour:	Light coloured.	
· Odour: · Odour threshold:	Odourless Not applicable	
· pH-value (50 g/l) at 20°C:	8.1	
<ul> <li>Melting point/Freezing point:</li> <li>Initial boiling point and boiling range:</li> </ul>	Not determined Not determined	
· Flash point:	Not applicable	
· Flammability (solid, gas):	The product is not combustible.	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not self-igniting.	
<ul> <li>Explosive properties:</li> <li>Flammability or explosive limits:</li> </ul>	Product is not explosive.	
Lower:	Not applicable	
Upper:	Not applicable	
· Oxidising properties:	none	
· Vapour pressure:	Not applicable.	
<ul> <li>Density at 20°C:</li> <li>Relative density:</li> </ul>	1.25 g/cm <sup>3</sup> Not determined.	
· Vapour density:	Not applicable.	
· Evaporation rate:	Not applicable.	
Solubility(ies):		
Water:	Soluble	
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#### Product name: Vario Ammonia Salicylate F5 ml

		(Contd. of page 4)	
· Partition coefficient: n-octano	· Partition coefficient: n-octanol/water: Not applicable.		
· Viscosity:	Not applicable.		
· Solvent content:			
Organic solvents:	0.0 %		
Solids content:	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
- · 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.

## • Acute toxicity estimate (ATE<sub>(MIX)</sub>) - Calculation method:

Oral CLP ATE<sub>(MIX)</sub> 1257 mg/kg (.)

## · LD/LC50 values that are relevant for classification:

CAS	CAS: 54-21-7 sodium salicylate		
Oral		930 mg/kg (rat) (RTECS)	
		700 mg/kg (human) (RTECS)	
		5-38-9 sodium nitroprusside dihydrate	
Oral		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

· 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)

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#### Product name: Vario Ammonia Salicylate F5 ml

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

SEC	SECTION 12: Ecological information		
	Toxicity		
_	tic toxicity:		
	54-21-7 sodium salicylate		
EC10	304 mg/l (Daphnia magna) (24) (ECOTOX)		
LC50	1370 mg/l/96h (fathhead minnow) (ECOTOX)		
CAS:	13755-38-9 sodium nitroprusside dihydrate		
EC50	1 mg/l/24h (Daphnia magna)		
LC50	0.05 mg/l (fish)		
Toxic the fo toxic a lethal • <b>12.2 I</b> • <b>12.3 I</b> Pow = log Po	r information: for fish: llowing applies to dissolved iron compounds in general: as from 0.9 mg/l at pH 6.5 - 7.5 as from 1.0 mg/l at pH 5.5 - 6.7 Persistence and degradability No further relevant information available. Bioaccumulative potential = n-octanol/wasser partition coefficient bw < 1 = Does not accumulate in organisms.		
	CAS: 54-21-7 sodium salicylate log Pow -1.43 (.) (calculated)		
· 12.4 I · 12.5 I This r persis · 12.6 ( · Wate	Mobility in soil No further relevant information available. Results of PBT and vPvB assessment nixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very stent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006. Other adverse effects Avoid transfer into the environment. r hazard: bt 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 08\* discarded organic chemicals consisting of or containing hazardous substances

## · 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	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG, IATA</li> </ul>	Void	
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA · Class	Void	
		(Contd. on page 7)

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

Printing date 04.04.2019

Version number 30

Revision: 04.04.2019

#### Product name: Vario Ammonia Salicylate F5 ml

	(Contd. of page 6)
· 14.4 Packing group	\/-:-I
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and	
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.

· Regulation (EU) No 649/2012

None of the ingredients is listed.

· National regulations

• Information about limitation of use: Employment restrictions concerning young persons must be observed.

• 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 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 (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Sources Data arise from safety data sheets, reference works and literature. **ECOTOX** Database

RTECS (Registry of Toxic Effects of Chemical Substances)