

SAFETY DATA SHEET

(according to 1907/2006/EC, Article 31)



VLOCLEAR

Date of revision: 01-11-2025

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identification

Trade name: VLOCLEAR

Unique Formula Identifier (UFI): 4K30-X0C0-900M-2A2F

1.2 Relevant identified uses of the substance or mixture and uses advised against

Additive to prevent bio-slime in (photographic) rinsing and process water. Exclusively intended for professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SAMA Water Products BV

Archimedesstraat 12

NL-3316AB Dordrecht

Netherlands

Tel.: +31 78 6393790

Email: info@samawaterproducts.com

1.4 Emergency telephone number

National poison centers – Europe

In case of poisoning contact the relevant national poison center listed below.

These centers provide 24-hour emergency medical advice unless otherwise stated.

<u>Country</u>	<u>Poison Centre</u>	<u>Telephone</u>	<u>Website</u>
Austria	Vergiftungsinformationszentrale	01 406 43 43	goeg.at
Belgium	Centre Antipoison / Antigifcentrum	070 245 245	centreantipoisons.be
Bulgaria	Toxicology Centres	02 9154 411	pirogov.eu
Croatia	Poison Control Centre	+385 1 2348 342	imi.hr
Czech Republic	Toxicological Information Centre	+420 224 919 293	tis-cz.cz
Denmark	Giftlinien	+45 8212 1212	bispebjerghospital.dk
Estonia	Poison Information Centre	16662	16662.ee
Finland	Poison Information Centre	0800 147 111	hus.fi
France	Centres Antipoison (national network)	+33 800 59 59 59	centres-antipoison.net
Germany	Poison Centres (national network)	19240	regional centres
Greece	Poison Control Centre	+30 213 200 9000	aglaiakyriakou.gr
Hungary	Toxicological Information Service	+36 80 201 199	okbi.hu
Ireland	Poisons Information Centre	+353 1 809 21 66	poisons.ie

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<u>Country</u>	<u>Poison Centre</u>	<u>Telephone</u>	<u>Website</u>
Italy	Centri Antiveleni (national network)	800 88 33 00	centroantiveleni.org
Latvia	Poison Information Centre	+371 67000610	aslimnica.lv
Lithuania	Poison Information Bureau	+370 5 236 2052	apsinuodijau.lt
Luxembourg	Centre Antipoison	+352 800 255 00	centreantipoisons.be
Netherlands	National Poisons Information Centre (NVIC)	088 755 8000	https://nvic.umcutrecht.nl/nvic/nl/
Norway	Giftinformasjonen	+47 22 59 13 00	helsenorge.no
Poland	Poison Centres (national network)	+48 12 411 99 99	pctox.pl
Portugal	Centro de Informação Antivenenos	+351 808 250 143	inem.pt
Romania	National Toxicology Centre	+40 213 183 606	insp.gov.ro
Serbia	National Poison Control Centre	+381 11 3608 440	vma.mod.gov.rs
Slovakia	National Toxicology Information Centre	+421 2 5477 4166	ntic.sk
Spain	Servicio de Información Toxicológica	+34 91 562 04 20	administraciondejusticia.gob.es
Sweden	Poison Information Centre	+46 10 456 6700	giftinformation.se
Switzerland	Tox Info Suisse	145	toxinfo.ch
United Kingdom	NHS 111	111	nhs.uk

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

	GHS05 Corrosion
Skin Corr. 1C H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.	
	GHS09 Environment

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Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very Toxic to aquatic life with long lasting effects.	
	GHS07
Skin Sens. 1A H317 May cause an allergic skin reaction.	

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is labelled according to the CLP Regulation.

Hazard pictograms

GHS05	GHS07	GHS09

Signal word Danger

Hazard indicating components for labelling:

mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1)

Hazard statements	
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction
H410	Very toxic to aquatic life with long lasting effects
Safety recommendations	
P273	Prevent release to the environment
P280	Protective gloves/protective clothing/eye protection/ wear face protection
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: consult a doctor
P391	Leaked / Spilled dust clean up

Additional information in the form of art. 25 CLP Regulation:

As per CLP regulation (art. 25) and BPR (art. 69) the information on the label must be clearly legible. According to art. 35 of REACH regulation the safety data sheet must be provided to each employee.

a) Identity of each active substance and its concentration in metric units.

See product label

b) Nanomaterials contained in the product: Does not contain nanomaterial .

c) Name and address of the authorisation holder: see point 1.3

d) The type of formulation: AL, any other liquid

e) Intended application:

Prevention of bio-slime in (photographic) rinse and process water

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f) Use, instructions for use, frequency of administration and dosage:

Product can be added at any time during production. Further information: see product information

g) Details of possible direct or indirect adverse effects and indications for giving initial advice staff:

For first aid instructions see point 4.

h) The package leaflet shall, where applicable, contain warnings for vulnerable groups:

No package insert is produced because all necessary information for the industrial user is included in the safety data sheet.

i) Instructions for safe disposal of the product and packaging: See point 13

j) Batch number or batch designation of the formulation and expiry date under normal storage conditions: See product label

k) Further information where required: Cleaning of the equipment: See instructions regarding disinfection under point 6.3.

l) Categories of users who may use the product: Industrial user n) Where applicable, information on specific environmental hazards, in particular with regard to the protection of non-target organisms and the avoidance of water pollution: See point 12.

2.3 Other hazards No other hazards have been identified for this product.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures Description: Agent for preventing bio-slime in (rinsing) water baths

Hazardous components:			
CAS: 7631-99-4 EINECS: 231-554-3 Reg.nr.: 01-2119488221-41-0026	Sodium nitrate	1 - 3%	
	 Ox. Sol. 3, H272		
	 Eye Irrit. 2, H319		
CAS: 55965-84-9 Catalog number: 613-167-00-5 Reg.nr.: 01-2120764691-48	Mixture of: 5-chloro-2-methyl-2H-isothiazole-3-on [EC no. 247-500-7] and 2-methyl-2H-isothiazole-3-one [EC no. 220-239-6] (3:1)	1.48%	
	 Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox 2 H330		
	 Skin Corr. 1C, H314; Eye Dam. 1, H318		
	 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100)		
	 Skin Sens. 1A, H317		

Additional information:

CAS No. of the Components: CIT 26172-55-4; MIT 2682-20-4

The literal content of the instructions given regarding possible hazards can be found in Chapter 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:

National Poisons Information Service: see at 1.4

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For use exclusively as information for professional emergency services in acute poisoning.
After inhalation: Remove to fresh air, consult a doctor in case of complaints.

In case of skin contact:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

In case of contact with eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor immediately.

If swallowed:

IF SWALLOWED: rinse mouth - DO NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

4.2 Most important acute and delayed symptoms and effects

Allergic symptoms

Skin reactions such as itching, redness, blisters may not occur until hours later.

Caustic damage to the gastrointestinal tract.

Skin contact can lead to painful and poorly healing wounds.

Information for the doctor:

Possible damage to mucous membranes is a contraindication to the use of gastric lavage.

Risk of gastric perforation

4.3 Indication of any immediate medical attention and special treatment needed

In case of ingestion, gastric lavage may be considered by medical professionals only after individual risk assessment.

Symptomatic treatment may include antihistamines or corticosteroids as considered appropriate by medical professionals.

Rinse eyes with physiological salts.

5. FIRE FIGHTING MEASURES

5.1 Fire extinguishing agents

Suitable extinguishing media: Water spray jet , Extinguishing powder, CO₂, Foam

Extinguishing media that are not suitable from a safety point of view: None

5.2 Special hazards arising from the substance or mixture

A fire can release toxic substances, such as:

Nitrogen oxide (NO_x)

Sulphur dioxide (SO₂)

Carbon monoxide (CO)

Hydrogen chloride (HCl)

5.3 Advice for firefighters

Special protective clothing:

Wear respiratory protective equipment that is independent of the ambient air.

Further information:

Collect contaminated extinguishing water separately; it must not end up in the sewer system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Keep unprotected persons away.

When selecting protective equipment, consideration should be given to complete and safe protection of the skin and mucous membranes. Impermeable protective clothing, neoprene protective boots, full face protection, nitrile rubber gloves with long sleeves.

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6.2 Environmental precautions:

The product may not be discharged into surface waters due to its toxicity to the aquatic environment.

to end up.

In case of ingress into waste water or sewage system, notify the competent authorities.

6.3 Methods and material for containment and cleaning up:

Collect large quantities in suitable containers. Cover remainder with absorbent material, mix thoroughly and collect mechanically.

Special binder for general application feature V

Dispose of contaminated material as waste according to point 13.

Decontamination : Clean contaminated surfaces with a solution of 5% sodium bisulfite and 5% sodium bicarbonate.

If material enters wastewater stream, collect contaminated water in a suitable container and add 10% sodium bisulfite solution. Contact supplier for further instructions.

6.4 Reference to other sections:

No

7. HANDLING AND STORAGE

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Preferably process the product in a closed system. Avoid air pollution at the workplace, e.g. by aerosol formation or product heating.

Clean contaminated tools immediately to prevent corrosion/irritation of the skin and/or allergic skin reactions in case of unintentional skin contact. The risks to the safety and health of employees are not only caused by working with chemicals but also by the work equipment and the layout of the workplace. These risks must be identified and evaluated.

Information regarding fire and explosion hazard: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage space and tanks: Keep only in the original packaging.

Information on suitable materials for vessels and pipes can be obtained from SAMA Water Products

Information regarding shared storage:

No

Further information on storage requirements:

During storage, it must be ensured that any leakage or other release of material is contained in a drip tray and cannot end up in the groundwater.

Sensitivity to UV radiation and heat: Protect from heat and direct sunlight.

7.3 Specific end use(s):

No further relevant information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

DNEL / PNEC:

DNEL and PNEC values are not available for the mixture. Risk management measures are based on the hazardous properties of the components, occupational exposure limits and professional use conditions. Avoid inhalation of vapours, mists or aerosols and ensure adequate ventilation.

8.1 Control parameters

Components with limit values that must be observed in the workplace:

55965-849	mixture of : 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-iso-thiazol-3-one [EC no. 220-239-6] (3:1) (1.5%)
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WGW (NL)	Long term value: 0.2 mg/m ³
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8.2 Exposure controls

Technical Protective equipment: In case of contact with eyes or skin, rinse immediately with running water.

Personal protective equipment:

General protective and health measures: Avoid contact with skin and eyes.

Wear protective clothing, protective gloves and eye protection.

before breaks and at the end of work. Preventive skin protection with skin protection ointment.

Provide a skin protection plan.

Respiratory protection: Not necessary

Hand protection:

	<p>Chemical resistant safety gloves (EN ISO 374-1:2018) Only gloves with a long hood provide sufficient protection against the influence of hazardous substances. Before each use, check the safety gloves for damage such as holes, tears or cuts. Do not wear safety gloves longer than necessary. After using gloves, use a product to clean and care for the skin. Glove material: Nitrile rubber Penetration time of glove material: Thickness in millimeters: 0.4 mm; breakthrough time in minutes: 480 min; material: Nitrile; penetration: level 6 Not suitable are gloves made of the following materials: Gloves for mechanical protection do not provide protection against chemicals.</p>
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Eye protection:

	<p>Face protection (EN166:2001) Use visor in combination with safety glasses</p>
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Body protection:

	<p>Wear suitable protective clothing (EN ISO 13688:2013)</p>
	<p>Apron</p>

Complete head, face and neck protection

Risk management measures

Employees/users must be adequately instructed. The workplace must be regularly inspected by authorized personnel e.g. a safety representative .

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties/General data

Form: liquid
Color: colorless to light yellowish
Fragrance: mild
Odour threshold: not relevant for safety
pH value at 20°C: 3.0-4.0
Melting/freezing point: approx. 0 °C
Boiling point/boiling point range: approx. 100 °C
Flash point: The mixture has no flash point
Flammability (solid, gas): The substance is not flammable (S 5807)
Ignition temperature: Not applicable as aqueous mixture

Decomposition temperature No self-decomposing properties (S 4175)
Self-ignition temperature: Not self-igniting
Explosive properties: No explosion hazard (S 4165)
Explosion limits: lower Method not applicable
Top Method Not Applicable
Oxidizing properties: No oxidizing properties (S 4170)
Steam pressure at 20°C: 23 mbar (H 2 O)
Density at 20°C: approx. 1 g/cm³
Relative density (D²⁰₄) : Not determined
Vapour density Not important for safety
Evaporation rate Not relevant for safety
Solubility in/miscibility with completely miscible water:
Partition coefficient: n- octanol /water see chapter 12
Viscosity
dynamic at 20°C 1.32 mPas (OECD 114 - S 4159)
kinematic at 40 °C 1.26 mm²/s (OECD 114 - S 4159)

9.2 Other information

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity The classification criteria for the property "Corrosive to metals" according to Annex I, Section 2.16 CLP Regulation respectively the UN Regulation for the carriage of dangerous goods, are not met for class 8. (S 5762).

For information on suitable materials for vessels and pipes, see section 7.2 (Requirements for storage areas and containers).

10.2 Chemical stability

Conditions to avoid:

Before use, the product should not be diluted or mixed with other chemicals to avoid negative reactions to the active ingredients.

Minimum shelf life: 18 months from date of production, at a storage temperature of approximately 20 °C

10.3 Possibility of hazardous reactions: No hazardous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials:

Strong bases

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Reduction means
Strong oxidizing agents
Nucleophile

10.6 Hazardous decomposition products: No decomposition when used as directed.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (based on available data; classification criteria not met) met)

Acute Toxicity Estimates (ATE) or LD/LC50 values		
Oral	LD 50	> 2000 mg/kg (Rat) (OECD 401) S33(b)
Dermal	LD 50	> 5000 mg/kg (Rat) (OECD 402) S31(b)
Inhalation	ATE, dust and mists, 4h	> 5 mg/l (calculated)

Skin corrosion/irritation:

Causes severe skin burns and eye damage. Serious Eye damage/eye irritation: Causes serious eye damage. Respiratory/eye sensitization. skin: May cause an allergic skin reaction

Results of studies		
55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-iso-thiazol-3-one [EC no. 220-239-6] (3:1)		
Sensitization	OECD 406 (MKA)	(Guinea pig) sensitization – S 171 (b)

Mutagenicity in sex cells:

Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. Toxicity to human health : Based on available data, the classification criteria are not met. reproduction: Based on available data, the classification criteria are not met. STOT in single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure exposure: Based on available data, the classification criteria are not met. Hazardous to inhalation: Based on available data, the classification criteria are not met.

11.2 Information on other hazards

The mixture does not contain substances identified as having endocrine disrupting properties in accordance with Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:	
EC 50 / 48 h	6.7 mg/l (Daphnia magna) (OECD 202) S 52(b)
IC 50 / 72 h	3.2 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 1322(b)

55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-iso-thiazol-3-one [EC no. 220-239-6] (3:1)	
EC ₅₀ / 72 h	0.048 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 1322(b)
EC ₅₀ / 48 h	0.1 mg/l (Daphnia magna) (OECD 202) S 52(b) 0.0052 mg/l (Skeletonema costatum) (DIN EN ISO 10253) (OECD 201) RAC opinion
LC ₅₀ / 96 h	0.22 mg/l (Onchorhyncus mykiss) (OECD 203) S 6(b)
NOEC / 48 h	0.00064 mg/l (Skeletonema costatum) (DIN EN ISO 10253) RAC

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NOEC / 21 d	0.004 mg/l (Daphnia magna) (OECD 211) S 52(b)
NOEC / 28 d	0.098 mg/l (Onchorhyncus mykiss) (OECD 215) S 117(b)
NOEC / 72 h	0.0012 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 1322(b)

Assessment:

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects

Toxicity on activated sludge organisms: 55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-iso-thiazol-3-one [EC no. 220-239-6] (3:1)	
EC ₅₀ / 3 h	7.92 mg/l (OECD 209) S 418(b)
EC ₂₀ / 3 h	0.97 mg/l (OECD 209) S 418(b)

Assessment : Toxicity to water purification microorganisms may be concentration dependent.

12.2 Persistence and degradability

Elimination rate:

· Rapid degradability of organic substances: 55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-iso-thiazol-3-one [EC no. 220-239-6] (3:1)	
OECD 301 D Closed-Bottle-Test	>60 % S 200 (b)
OECD 308 Simulation Biodegradation Aqu Sed System	1.82-1.92 d S 617 (CIT)
Assessment: Substances are considered to be rapidly biodegradable in the environment if studies of easy biological degradability for 28 days within ten days after the start of the degradation process at least the next breakdown levels become reaches: 70 % dissolved organic carbon or 60% O ₂ consumption or CO ₂ - formation; cf. CLP Regulation, Annex I, point 4.1.2.9 and CLP Guideline , version 4.1, Annex II.2). Substances become deemed fast biodegradable at are in It environment as the half life by the primary biodegradation in aquatic simulation tests is maximum 16 days and the degradation products are not are classified as dangerous. Committee risk assessment - RAC (advice by 10 March 2016): CIT/MIT not rapidly degradable. The classification is based on the advice.	
· Behavior in sewage treatment plants : 55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-iso-thiazol-3-one [EC no. 220-239-6] (3:1)	
OECD 302 B Zahn-Wellens Test	100% S 2387 (b)
OECD 303 A: Activated Sludge Units	>80 % S 199 (b)
Assessment: The substance is biodegradable in activated sludge installations	

12.3 Bioaccumulation

BCF / LogKow :
55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2- methyl-2H -iso-thiazol-3-one [EC no. 220-239-6] (3:1)

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Bioconcentration factor BCF OECD 107 Log Kow (HPLC Method)	3.6 (calculated) S 1177 -<0.71; (n-octanol/water) S 5
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Assessment: Does not accumulate in organisms.

12.4 Mobility in soil: No further relevant information available.

General information: Water hazard (NL): B(2) toxic to aquatic life organisms

12.5 Results of PBT and vPvB assessment

PBT: This material does not contain any agents that meet the PBT criteria of REACH, annex XIII

vPvB : This material does not contain any agents that meet the vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties

The mixture does not contain substances identified as having endocrine disrupting properties in accordance with Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

12.7 Other harmful effects

No further harmful effects known.

Metal and their connections (2006/11/EC): No

European Framework Directive Water (2000/60/EC):

This product contains no important substances that An monitoring by the water quality requirements.

Organic bound halogen compounds (AOX - DIN AND ISO 9562 H 14):

May influence the AOX value in wastewater . The active ingredient is however not persistent and is rapidly degraded after the loss of a chlorine atom .

Calculated AOX value: 0.26 %

Category by water damage:

General information

Water hazard (EN): B(1) Very toxic to aquatic organisms.

13. DISPOSAL INSTRUCTIONS

13.1 Waste treatment methods

Recommendation:

Must undergo special treatment in accordance with official regulations. Appropriate disposal operations according to Directive 2008/98/EC on waste: D 10 Incineration on land.

European Waste Catalogue	
16 00 00	WASTE NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	rejected batches and unused products
16 03 05	organic waste containing hazardous substances
HP8	Corrosive
HP13	Sensitizing
HP14	Ecotoxic

Uncleaned packaging: Recommendation: The packaging can be reused or recycled after cleaning. Cleaning fluid can be disposed of via a biological wastewater treatment plant. Recommended cleaning agent: Water, possibly with the addition of cleaning agents.

14. INFORMATION RELATING TO TRANSPORT

UN number: UN 3265

UN proper shipping name: Corrosive liquid, n.o.s.

Transport hazard class: 8

Packing group: III

ADR / IMDG / IATA / UN Model Regulations: UN 3265, Class 8, Packing Group III

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14.1 UN Number (UN Number)

ADR, IMDG, IATA	UN 3265
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14.2 Proper shipping name according to the UN model regulations

ADR	3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, NOS (a mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]) (3:1)
IMDG	CORROSIVE LIQUID, ACIDIC, ORGANIC, NOS (reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]), MARINE POLLUTANT
IATA	CORROSIVE LIQUID, ACIDIC, ORGANIC, NOS (reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6])

14.3 Transport hazard class (es)

ADR  	
Class Label	8(C3) Corrosive substances 8
IMDG  	
Class Label	8 Caustic substances 8
IATA 	
Class Label	8 Caustic substances 8

14.4 Packaging group

ADR, IMDG, IATA	III
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14.5 Environmental hazards

Marine pollutant	Yes
Special marking (ADR)	Symbol (fish and tree)

14.6 Special precautions for user

Warning	Caustic substances
Kemler number	80
EMS number	FA, SB
Segregation groups	(SGG1) Acids

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Stowage Category	A
Stowage Code	SW2 Clear of living quarters

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Transport/further information

ADR Limited Quantities (LQ)	5 liter
Excepted Quantities (EQ)	Code E1 Largest net quantity per inner packaging : 30ml Largest net quantity per outer packaging: 1000ml
Transport category	3
Tunnel restriction code	E
IMDG Limited Quantities (LQ)	5 liter
IMDG Excepted quantities (EQ)	Code E1 Maximum net quantity per inner packaging: 30ml Maximum net quantity per outer packaging: 1000ml
IATA Comments	Packaging instructions / max. Net per packaging unit: Passenger aircraft: 852 / 5 L; Cargo aircraft: 856 / 60 L
UN "Model Regulation "	UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, NOS (MIXTURE OF: 5-CHLOR-2- METHYL-2H- ISOTHIAZOLE-3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOLE-3-ONE [EC NO. 220 239-6] (3:1)), 8, II, ENVIRONMENTALLY HAZARDOUS

15. REGULATIONS

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

SZW list of carcinogenic substances
None of the ingredients are listed.

SZW list of mutagenic substances
None of the ingredients are listed.

NON-exhaustive list of substances toxic to reproduction – Fertility
None of the ingredients are listed.

NON-exhaustive list of substances toxic to reproduction – Development
None of the ingredients are listed.

NON-exhaustive list of substances toxic to reproduction – Breastfeeding
None of the ingredients are listed.

Directive 2012/18/EU

Dangerous substances mentioned by name - APPENDIX I None of the ingredients are listed Threshold value (ton) for application by regulations for low-threshold facilities : 100 tons

Threshold value (ton) for application by regulations for high-threshold facilities : 200 ton

Regulation (EU) No 528/2012 ANNEX XVII: Conditions of restriction:

This product is subject to the BPR and all relevant national transitional arrangements.

Art. 95 List :

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55965-84-9	reaction mass (3:1) by 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl- 2H-isothiazol-3-one	PT 2, 4, 6, 11, 12, 13
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Regulation (EG) no. 1907/2006 APPENDIX XVII: Restriction conditions: 3, 75

Directive 2011/65/EU concerning limit by It usage by certain dangerous substances in electrical and electronic equipment - Annex II

None of the ingredients are listed.

REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors

Attachment I - PRECURSORS FOR EXPLOSIVES WHAT FOR A LIMIT APPLIES (Upper limit value at for the purpose by licensing on ground by article 5, member 3)

No of the components stands on the list.

Attachment II - PRECURSORS FOR EXPLOSIVES THOSE MUST BECOME REPORTED

7631-99- 4 | SODIUM NITRATE

Regulation (EG) no. 273/2004 on drug precursors

No of the components stands on the list.

Regulation (EG) No. 111/2005 holding regulations for It supervision on the trade between the Community and third countries in drug precursors

None of the ingredients are listed.

National regulations:

Instructions regarding employment restrictions:

Respect employment restrictions for young people. Respect employment restrictions for expectant and breastfeeding mothers.

Water hazard class (General Assessment Methodology - ABM 2016):

Water hazard (EN): B(1) Very toxic to aquatic organisms

Notification number/Approval number and The Netherlands: 13666N

Indication by volatile organic carbon (VOC):

Directive 2004/42/EC: This product contains no volatile organic components (VOC).

Semi-volatile organic carbon (SVOC) according to EU Ecolabel for inside and outdoor painting (2014/312/EU):

This product contains no semi volatile organic substances.

15.2 Chemical safety assessment:

A chemical safety assessment has not been carried out.

16. OTHER INFORMATION

Revision history:

Version 1.0 – Initial issue.

Version 1.1 – Administrative update. Formatting and language corrections. No changes to composition or classification.

Version 1.2 – Update according to Regulation (EU) 2020/878. Transport section clarified. DNEL/PNEC information aligned.

Version 2.0 – Label elements aligned with CLP classification. Removal of EUH701. Respiratory

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protection wording clarified.

Version 3.0 – Regulatory final version. Transport section fully harmonised (UN 3265, Class 8, Packing Group III). Hazard statements aligned with classification (H314, H317, H400, H410). Language and consistency review completed. No changes to product formulation.

Version 3.1 – Legal and editorial revision. Transport information harmonised, endocrine disrupting statements aligned with EU legislation and language quality improved. No change to composition or classification.

Superseding statement

This Safety Data Sheet supersedes all previous versions and replaces all earlier SDS editions for this product. Only this version is valid for regulatory, audit and customer use.

This information is based on our current knowledge. The information provided is not a guarantee of product quality or properties and as such cannot be considered a legal contractual agreement.

Relevant sentences

H272 May intensify fire; oxidizer

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Instructions for the training

Further information on other applications can be found in the technical product information indicated.

Classification according to Regulation (EC) No 1272/2008

The classification consists of the relevant available information on the mixture or solid substances therein.

The evaluation of the available information in the context of the classification refers to the form and mass in which the mixture is placed on the market and is likely to be used.

Abbreviations and acronyms:

ELINCS: European List or Notified Chemical Substances PIC: prior informed consent

ATE: Estimation acute toxicity

EmS : Emergency procedures for ships that dangerous goods transport EN ISO: ISO standard adopted as European standard

DIN AND: European standard that as DIN standard is becoming approved

OECD: Organization for Economic Cooperation and Development ECxx : Effect concentration, xx percent

NOEC: No observed effect concentration UN: United Nations

ADR: International transport regulations of this merchandise dangerous pair route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International maritime code for dangerous goods IATA: International Air Transport Association

GHS: Worldwide harmonized system for the layout and labeling by chemical substances EINECS:

European Inventory of Existing Commercial Chemical Substances

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CAS: Chemical Abstracts Service (division by the American Chemical Society) LC50: Lethal Concentration, 50 Percent
LD50: Lethal dose, 50 percent
CLP: Classification, labeling and packaging. IMO: International Maritime Organization
REACH : Regulatory information concerning the substance or mixture
US EPA: American Environmental Protection Agency FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act. Ox . Sol. 3: Oxidizing Solids – Category 3
Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2
Skin Corr . 1C: Skin corrosion/irritation – Category 1C Eye Dam. 1: Serious eye injury/eye irritation – Category 1 Eye Irrit . 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1A: Sensitization by the skin – Category 1A
Aquatic Acute 1: Danger for the aquatic environment - acute aquatic danger – Category 1
Aquatic Chronic 1: Danger for the aquatic environment - aquatic danger on long term – Category 1

Important literature references and information sources:

Data source (nen): Biocide product file(s)

Own study (reference to S-number).

Further information

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated. This information is intended only as a guide to safe handling, use, processing, storage, transportation, disposal, and release and should not be considered a warranty or quality indication. The information relates only to the product specified herein and is not automatically valid when used with other products or in any other process unless stated in the text.