

SAFETY DATA SHEET

(according to Regulation (EC) No. 1907/2006)



VLOSEPT

Date revision : 01-11-2025

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

1.1 Product identifier

Trade name: VLOSEPT

Unique Formula Identifier (UFI): T3K0-10F9-200M-8R7A

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

Cleaning agent for wash water tanks of film- and photo processors. For professional users only.

1.3 Details of the supplier of the safety data sheet

Producer/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. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

	GHS05 Danger
Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage. Serious eye damage Category 1 H318: Causes serious eye damage	

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is labelled according to the CLP regulation.

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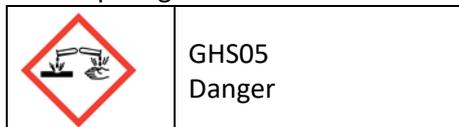
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Hazard pictograms:



Signal word	Danger	
Hazard statements	H314	Causes severe skin burns and eye damage.
Precautionary statements	P280	Wear protective gloves (e.g. butyl rubber)/protective clothing/eye protection/face protection.
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water or shower.
Precautionary statements	P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
	P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

1310-58-3 Potassium hydroxide

Special labelling of certain mixtures

Labelling according to Regulation (EC) No. 648/2004: (< 5 %Phosponates)

2.3 Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

Vapours may cause corrosive effects to the eyes, respiratory tract and skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical nature: Solution of the following substances with harmless additives.

Hazardous components		Concentration				
CAS-No.: 1310-58-3 EC-No.: 215-181-3 Indexnumber: 019-002-00-8 Registration number: 01-2119478136-33	Chemical name: Potassium hydroxide <table border="1"><tr><td></td><td>Met. Corr. 1, H290</td></tr><tr><td></td><td>Acute Tox. 4, H302</td></tr></table>		Met. Corr. 1, H290		Acute Tox. 4, H302	4,8%
	Met. Corr. 1, H290					
	Acute Tox. 4, H302					

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		Skin Corr. 1A, H314	
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For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

- General advice:** Take off all contaminated clothing immediately.
- If inhaled:** Move to fresh air. If symptoms persist, call a physician.
- In case of skin contact:** Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
- In case of eye contact:** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
- If swallowed:** Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : corrosive effects

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: For specialist advice physicians should contact the Poisons Information Service

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet, Dry powder, Foam, Carbon dioxide (CO₂)
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Gives off hydrogen by reaction with metals.

Hazardous combustion products : Carbon monoxide,
Carbon dioxide (CO₂)

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Avoid contact with skin and eyes

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

See Section 8 + 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : Wear personal protective equipment.
Avoid contact with skin, eyes and clothing

Advice on protection against fire and explosion : No special protective measures against fire required. The product is not flammable.

Hygiene measures : Keep away from food and drinks.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container

Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed. Recommended storage temperature 5-25°C

Advice on common storage : Do not store near acids.

7.3 Specific end use(s)

Specific use(s) : none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Potassium hydroxide	1310-58-3	WEL	2 mg/m ³	HSE

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Potassium hydroxide	Workers	Inhalation	Long-term local effects	1 mg/m ³

8.2 Exposure controls

Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection

	Safety glasses with side-shields conforming to EN166
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Hand protection

	<p>The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</p> <p>Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.</p>
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Respiratory protection: No personal respiratory protective equipment normally required.

Protective measures: Avoid contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	nearly colourless
Odour	nearly odourless
Odour Threshold	not determined
pH	ca. 14 (20 °C)
Melting point/freezing point	< -5 °C
Decomposition temperature	Not applicable
Boiling point/boiling range	ca. 100 °C,
Flash point	>100°C Method: ISO 2719

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Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	ca. 25 hPa (20 °C)
Vapour density	No data available
Relative density	ca. 1,12 g/cm ³ , 20 °C
Water solubility	in all proportions, 20 °C
Partition coefficient: n- octanol/water	Not applicable
Auto-ignition temperature	No data available
Viscosity, dynamic	ca. 3 mPa*s, ISO 3219
Explosive properties	Not data available
Oxidizing properties	Not data available

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Reaction with acids. Possible incompatibility with alkali sensitive materials.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Acids, Ammonium salts

10.6 Hazardous decomposition products

None reasonably foreseeable

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (product)

Acute oral toxicity	Acute toxicity estimate: > 5000 mg/kg
Acute inhalation toxicity	Acute toxicity estimate: > 50 mg/l
Acute dermal toxicity	Acute toxicity estimate: > 15000 mg/kg

Skin corrosion/irritation (product)

Causes severe skin burns and eye damage. Calculation method.

Serious eye damage/eye irritation (product)

Causes severe skin burns and eye damage. Calculation method.

Respiratory or skin sensitization (components)

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Potassium hydroxide:

Did not cause sensitisation on laboratory animals. Guinea pig

Germ cell mutagenicity (components)

Potassium hydroxide:

Genotoxicity in vitro : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Germ cell mutagenicity-Assessment: Animal testing did not show any mutagenic effects.

Carcinogenicity (components)

Potassium hydroxide:

Carcinogenicity - Assessment: No data available

Reproductive toxicity (components)

Potassium hydroxide:

Reproductive toxicity - Assessment: No data available

STOT - single exposure (Component Potassium hydroxide)

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure (Component Potassium hydroxide)

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity (Component Potassium hydroxide)

No data available

Further information:

Product

No data is available on the product itself.

11.2 Information on other hazards

The mixture does not contain substances with endocrine-disrupting properties for human health as defined in Regulation (EU) 2019/2100 or Commission Regulation (EU) 2017/2100. No additional hazards are known beyond those described in section 11.1.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Components: Potassium hydroxide

Toxicity to fish	LC50 (<i>Gambusia affinis</i> (Mosquito fish)): 80 mg/l, Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available

12.2 Persistence and degradability

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Product	
Biodegradability	The methods for determining biodegradability are not applicable to inorganic substances.
Chemical Oxygen Demand (COD)	ca. 300 mg/l, 1% solution
Components: Potassium hydroxide	
Biodegradability	The methods for determining biodegradability are not applicable to inorganic substances

12.3 Bioaccumulative potential

Components: Potassium hydroxide	
Bioaccumulation	Remarks: Does not bioaccumulate.

12.4 Mobility in soil

Components: Potassium hydroxide	
Mobility	Remarks: Mobile in soils

12.5 Results of PBT and vPvB assessment

Product: Asessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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12.6 Other adverse effects (product)

Additional ecological information	No data is available on the product itself.
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12.7 Endocrine disrupting properties

The mixture does not contain substances identified as having endocrine-disrupting properties for the environment according to Regulation (EU) 2019/2100.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Dispose of the product according to the defined EWC (European Waste Code) No.
Contaminated packaging	Take empty packaging to the recycling plant.
Waste key for the unused	European waste catalog (EWC) 070601
Waste key for the unused (Group)	Product Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

14. TRANSPORT INFORMATION

14.1 UN-Number

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ADR, IMDG, IATA	UN 1814
IMDG	UN 1814
IATA (Cargo)	UN 1814

14.2 UN proper shipping name

ADR	POTASSIUM HYDROXIDE, SOLUTION
IMDG	POTASSIUM HYDROXIDE, SOLUTION
IATA (Cargo)	POTASSIUM HYDROXIDE, SOLUTION

14.3 Transport hazard class(es)

ADR  Class Label	8 Corrosive 8
IMDG, IATA  Class label	8 Corrosive 8

14.4 Packing group

	ADR	IMDG	IATA
Packing group	II	II	II
Classification code	C5	-	-
Hazard Identification Number	80	-	-
Labels	8	8	8
Tunnel restriction code	E	-	-
EmS Code	-	F-A, S-B	
Packing instruction (cargo aircraft)	-	-	855

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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Not applicable for product as supplied

15. REGULATORY INFORMATION

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances	Not applicable
Volatile organic compounds	Remarks: none, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

15.2 Chemical Safety Assessment

Exempt

16. OTHER INFORMATION

Revision history

Version: 1.1 - Description: Safety Data Sheet updated in accordance with Regulation (EU) 2020/878. Mandatory sub-sections 11.2 and 12.7 added. No changes to product composition or classification.

Version 1.2 - UFI added in accordance with Annex VIII of Regulation (EC) No 1272/2008. No changes to composition, classification or transport status.

Version 1.3 - Administrative compliance update. Sections 11.2 and 12.7 added in accordance with Regulation (EU) 2020/878. No changes to composition, classification, UFI or transport status.

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.

H290 : May be corrosive to metals

H302 : Harmful if swallowed

H314 : Causes severe skin burns and eye damage.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Met. Corr. : Corrosive to metals

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Skin Corr. : Skin corrosion

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN- Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008.

Skin Corr. 1B, H314 : Calculation method

Eye Dam. 1, H318 : Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.