

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

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

*** 1.1 Product identifier**

* **Trade name:** VAPOSTREEN

* **Article number:** ART1007710

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

*** Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

* **Product category** PC35 Washing and cleaning products (including solvent based products)

* **Technical function** Cleaning agent

*** Application of the substance / the mixture**

Alkaline cleaner/ detergent

Cleaning agent/ Cleaner

PC35 Washing and cleaning products (including solvent based products)

*** Uses advised against**

All not mentioned uses

SU21 Consumer uses: Private households / general public / consumers

*** 1.3 Details of the supplier of the safety data sheet**

*** Manufacturer/Supplier:**

AD Productions BV

Markweg Zuid 27

4794 SN Heijningen

The Netherlands

Tel : 00-31-(0)167-526920

www.adinternationalbv.com

*** Information department:**

Product Safety department

Tel.: 00-31 - (0) 167-526 900

safety@adinternationalbv.com

Support is only given in the following languages: Dutch, English and German

*** 1.4 Emergency telephone number:**

Product Safety Department

In case of a spill or accident, you can contact us at:

tel. (00) - 31 - 167 - 526 - 888 (during office hours)

During office hours we can be contacted for general information at:

tel. (00) - 31 - 167 - 526 - 900

Support is only given in the following languages: Dutch, English and German

SECTION 2: Hazards identification

*** 2.1 Classification of the substance or mixture**

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



corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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*** 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**



GHS05

*** Signal word** *Danger*

*** Hazard-determining components of labelling:**

potassium hydroxide

tetrasodium ethylenediaminetetraacetate

*** Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

*** Precautionary statements**

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/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): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosion resistant container / container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Additional information:**

Mix before use

*** 2.3 Other hazards .**

*** Results of PBT and vPvB assessment**

* **PBT:** Based on available data, the classification criteria are not met.

* **vPvB:** Based on available data, the classification criteria are not met.

SECTION 3: Composition/information on ingredients

*** 3.2 Mixtures**

* **Description:** Mixture of the substances listed below with nonhazardous additions.

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* Dangerous components:		
CAS: 8002-33-3 EINECS: 232-306-7	castor oil, sulfated ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	3-5%
CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8 Reg.nr.: 01-2119487136-33	potassium hydroxide ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302 Specific concentration limits: Met. Corr. 1; H290: C ≥ 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Dam. 1; H318: C ≥ 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	2.5-3%
CAS: 64-02-8 EINECS: 200-573-9 Index number: 607-428-00-2 Reg.nr.: 01-2119486762-27	tetrasodium ethylenediaminetetraacetate ⚠ STOT RE 2, H373; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	1-2.5%
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2 Reg.nr.: 01-2119485498-19	sodium carbonate ⚠ Eye Irrit. 2, H319	1-2.5%

* **SVHC** This product does not contain any SVHC substances*** Additional information**

Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.

All values in this chapter are given in w%

REACH exemptions:

*) Low hazard/risk (REACH Annex IV)

***) Natural substance (REACH Annex V)

****) Ionic mixture (REACH Annex V)

*****) Low volume (< 1000 kg/year)

*****) polymer (REACH Article 2(9))

(++) The substance is part of a REACH registered substance

(+++) Registration Number confidential

(++++) BPR, Regulation (EU) 528/2012

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**

Immediately remove any clothing soiled by the product.

Personal protection for the First Aider.

*** After inhalation**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

Use a respiration bag or breathing device.

Corrosive substances may cause lung damage

As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete

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rest (preferably in semi recumbent posture.) and must be kept under medical observation even if no symptoms are (yet) manifested.

Inhalation of vapors and aerosols (mists, fumes) may cause lung edema.

*** After skin contact**

Quickly remove all contaminated clothing, including footwear

Immediately flush body and clothes with large amounts of water, using safety shower if available

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

*** After eye contact**

Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Rinse opened eye for at least 15 minutes under running water.

Seek immediate medical advice.

*** After swallowing**

Rinse out mouth and then drink plenty of water.

Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water, give several glasses of water. Get medical aid immediately if necessary.

Do not induce vomiting; call for medical help immediately.

Seek immediate medical advice.

*** 4.2 Most important symptoms and effects, both acute and delayed**

irritation / redness

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

Corrosive substances may cause lung damage

As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi recumbent posture.) and must be kept under medical observation even if no symptoms are (yet) manifested.

Inhalation of vapors and aerosols (mists, fumes) may cause lung edema.

*** Danger** Danger of pulmonary oedema.

*** 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs

SECTION 5: Firefighting measures*** 5.1 Extinguishing media***** Suitable extinguishing agents**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

*** For safety reasons unsuitable extinguishing agents** Not determined.

*** 5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Sulphur dioxide (SO₂)

Not considered to be a significant fire risk

Corrosive gases/vapours

*** 5.3 Advice for firefighters***** Protective equipment:**

Wear self-contained respiratory protective device.

In case of danger, wear protective clothes

*** Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

*** 6.1 Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

Keep people at a distance and stay on the windward side.

Warning: Contaminated absorbent material may pose the same hazard as the spilled product.

*** 6.2 Environmental precautions:**

This material and its container must be disposed of as hazardous waste.

Use appropriate container to avoid environmental contamination.

Dispose of this material and its container to hazardous or special waste collection point.

*** 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

weak acid solution

*** 6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

*** 7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Do not eat, drink or smoke when using this product.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

*** Information about protection against explosions and fires:** No special measures required.

*** Handling** Mix before use

*** 7.2 Conditions for safe storage, including any incompatibilities** Store in original containers.

*** Storage**

*** Requirements to be met by storerooms and receptacles:** Provide alkali-resistant floor.

*** Information about storage in one common storage facility:**

Do not store together with acids.

See section 10.3: Possibility of hazardous reactions

*** Further information about storage conditions:**



Protect from freezing

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- * **Recommended storage temperature:** 15-25°C
- * **Compatible materials** No further relevant information available.
- * **Incompatible materials** No further relevant information available.
- * **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**

CAS: 1310-58-3 potassium hydroxide

Inhalative	DNEL	1 mg/m ³ (Human: Worker) (Long term systemic effects)
		1 mg/m ³ (Human: Worker) (Short term systemic effects)

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

Oral	DNEL	25 mg/kg bw/day (Human: Generals public) (Long term systemic effects)
Inhalative	DNEL	3 mg/m ³ (Human: Worker) (Short term local effects)
		0.6 mg/m ³ (Human: Generals public) (Long term local effects)
		1.5 mg/m ³ (Human: Worker) (Long term local effects)
		1.2 mg/m ³ (Human: General public) (Short term local effects)

CAS: 497-19-8 sodium carbonate

Inhalative	DNEL	10 mg/m ³ (Human: Worker) (Long term local effects)
		10 mg/m ³ (Human: Generals public) (Long term local effects)

*** PNECs**

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

PNEC	0.72 mg/kg dw (Soil)
PNEC	2.2 mg/l (Freshwater)
	0.22 mg/l (Marine water (seawater))
	43 mg/l (Waste water treatment plant)
	1.2 mg/l (Freshwater intermittent)

* **Additional information:** The lists that were valid during the creation were used as basis.

*** 8.2 Exposure controls**

Recommendations are based on working at ambient temperature, unless stated otherwise

*** Appropriate engineering controls**

Local exhaust ventilation usually required, if risk of overexposure exists, wear approved respirator
If, despite local air extraction, an unfavorable concentration of the substance in the air can occur, respiration should be protected using PPEs. This protection may include:

- (a) dust gas mask, combined with an absorption cartridge if necessary
- (b) filter gas masks with absorption cartridge or filter canister of the correct type
- (c) fresh air mask
- (d) fume cupboard

*** Individual protection measures, such as personal protective equipment**

*** General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing

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Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Be sure to clean skin thoroughly after work and before breaks.
Do not carry product impregnated cleaning cloths in trouser pockets.

***Breathing equipment:**

Ensure good ventilation/exhaustion at the workplace.
In case of inadequate ventilation wear respiratory protection.
Respiratory protection when aerosol or mist are formed in the breathing zone



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Respiratory protection (Efficiency $\geq 90\%$)

***Recommended filter device for short term use: Filter P3 (white)**

***Hand protection**

Use chemical resistant gloves classified under standard EN 374: Protective gloves against chemicals and micro-organisms.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Alkaline resistant gloves

Sensibilisation by the components in the glove materials is possible.

Check the permeability prior to each renewed use of the glove.

For the permanent contact in work areas with heightened risk of injury (mechanical hazard) no recommendation for a suitable glove material can be given.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

***Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Chloroprene rubber, CR

***Penetration time of glove material**

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

EN 374:

class	Breakthrough time
1	> 10 min
2	> 30 min
3	> 60 min
4	> 120 min
5	> 240 min

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6 > 480 min

*** For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Natural rubber, NR
Chloroprene rubber, CR
PVC gloves

Recommended thickness of the material: ≥ 0.5 mm

*** For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Natural rubber, NR
Chloroprene rubber, CR
PVC gloves

Recommended thickness of the material: ≥ 0.5 mm

*** As protection from splashes gloves made of the following materials are suitable:**

Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Natural rubber, NR
Chloroprene rubber, CR
PVC gloves

Recommended thickness of the material: ≥ 0.1 mm

*** Not suitable are gloves made of the following materials:**

Leather gloves
Strong gloves
PVA gloves

*** Eye/face protection**

Safety glasses

Full face shields may be required for supplementary but never for primary protection of eyes

*** Body protection:**

Protective work clothing.

Alkaline resistant protective clothing

To avoid the risk of splatters : wear face protection

Take off contaminated clothing and wash it before reuse.

*** Boots**

made out of rubber

made out of plastic

*** Risk management measures**



ANSI Z 358.1 Emergency Eyewash and Shower equipment

Keep good industrial hygiene.

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SECTION 9: Physical and chemical properties

***9.1 Information on basic physical and chemical properties**

*** General Information**

*** Physical state**

Fluid

*** Colour:**

Brown

*** Odour:**

Characteristic

*** Odour threshold:**

Not determined.

*** Melting point/freezing point:**

Not determined.

*** Boiling point or initial boiling point and boiling range**

>100 °C

*** Heat of vaporization**

*** Flammability**

Not applicable.

*** Lower and upper explosion limit**

*** Lower:**

Not determined.

*** Test data:**

*** Upper:**

Not determined.

*** Flash point:**

Not applicable

*** Self igniting:**

Product is not selfigniting.

*** Minimum ignition energy**

*** Decomposition temperature:**

Not determined.

*** pH at 20 °C**

13

*** pH value solutions:**

Alkaline

11.5 (1% m/m)

*** Viscosity (4):**

*** Kinematic viscosity at 20 °C**

12 s (DIN 53211/4)

*** dynamic:**

Not determined.

*** Solubility**

*** Water:**

Easily soluble

*** Partition coefficient n-octanol/water (log value)**

Not determined.

*** Vapour pressure at 20 °C:**

23 hPa

*** Steam pressure:**

*** Density and/or relative density**

*** Density at 20 °C:**

1.07 g/cm³

*** Relative density**

Not determined.

*** Vapour density**

Water (CAS 7732-18-5) < 1 (Air=1)

***9.2 Other information**

*** Appearance:**

*** Form:**

Liquid

*** Important information on protection of health and environment, and on safety.**

*** Ignition temperature:**

>200 °C

*** Test data:**

*** Explosive properties:**

Product does not present an explosion hazard.
Not determined.

*** Solvent content:**

*** Organic solvents (VOC/HAP):**

<0.0 %

*** Change in condition**

*** Critical Temperature**

*** Oxidising properties**

Not applicable.

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* Evaporation rate	Not determined.
* Information with regard to physical hazard classes	
* Explosives	Not applicable.
* Flammable gases	Not applicable.
* Aerosols	Not applicable.
* Oxidising gases	Not applicable.
* Gases under pressure	Not applicable.
* Flammable liquids	Not applicable.
* Flammable solids	Not applicable.
* Self-reactive substances and mixtures	Not applicable.
* Pyrophoric liquids	Not applicable.
* Pyrophoric solids	Not applicable.
* Self-heating substances and mixtures	Not applicable.
* Substances and mixtures, which emit flammable gases in contact with water	Not applicable.
* Oxidising liquids	Not applicable.
* Oxidising solids	Not applicable.
* Organic peroxides	Not applicable.
* Corrosive to metals	May be corrosive to metals.
* Desensitised explosives	Not applicable.

SECTION 10: Stability and reactivity

- * **10.1 Reactivity** See section 10.3: Possibility of hazardous reactions
- * **10.2 Chemical stability**
- * **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- * **10.3 Possibility of hazardous reactions**
Reacts with light alloys to form hydrogen
Reacts with acids
Reacts with carbon dioxide
Reacts with certain metals
- * **10.4 Conditions to avoid**
Do not get in eyes, on skin, or on clothing.
See section 10.3: Possibility of hazardous reactions
- * **10.5 Incompatible materials:** See section 10.3: Possibility of hazardous reactions
- * **10.6 Hazardous decomposition products:** Sulphur oxides (SO_x)

SECTION 11: Toxicological information

- * **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- * **Acute toxicity**

* **LD/LC50 values that are relevant for classification:**

CAS: 1310-58-3 potassium hydroxide

Oral	LD50	333 mg/kg (rat)
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CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

Oral	LD50	1,780 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)
Inhalative	LOAEC (i)	30 mg/m ³ (rat)

CAS: 497-19-8 sodium carbonate

Oral	LD50	6,600 mg/kg (rat)
Dermal	OECD 402: Acute Dermal Toxicity	>2,000 mg/kg (Rabbit)
Inhalative	LC50/02h	2.3 mg/kg (rat)

* **Skin corrosion/irritation** Causes severe skin burns and eye damage.*** Test Data:****CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate**

Irritation of skin | OECD 404: Acute Dermal Irritation/corrosion | (Rabbit) (Not irritating)

CAS: 497-19-8 sodium carbonate

Irritation of skin | OECD 404: Acute Dermal Irritation/corrosion | (Rabbit) (Not irritating)

* **Serious eye damage/irritation** Causes serious eye damage.*** Test data:****CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate**

Irritation of eyes | OECD 405: Acute Eye Irritation/Corrosion | (Rabbit) (Severe eye damage)

CAS: 497-19-8 sodium carbonate

Irritation of eyes | OECD 405: Acute Eye Irritation/Corrosion | (Rabbit) (Irritating)

* **Respiratory or skin sensitisation***** Test data:****CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate**

Sensitisation | OECD 406: Skin Sensitisation | (guinea pig) (Not sensitizing)

* **Germ cell mutagenicity** Based on available data, the classification criteria are not met.*** Additional toxicological information:***** IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

* **Acute effects (acute toxicity, irritation and corrosivity)** For acute effects. Check Chapter 4.2.* **Sensitisation** Not applicable for corrosive substances of category 1*** 11.2 Information on other hazards***** Endocrine disrupting properties**

CAS: 540-97-6	Dodecamethylcyclohexasiloxane	List II
CAS: 541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	List II
CAS: 556-67-2	octamethylcyclotetrasiloxane	List III

SECTION 12: Ecological information*** 12.1 Toxicity***** Aquatic toxicity:****CAS: 1310-58-3 potassium hydroxide**

LC50/96h | 50-165 mg/l (Fish)

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EC50/48h	630 mg/l (Crustacea (<i>Daphnia magna</i>))
LC50/24h	80 mg/l (Fish (<i>Gambusia affinis</i>))
CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate	
LC50/96h	>100 mg/l (Fish (<i>Lepomis macrochirus</i>))
OECD 202 (PART I): <i>Daphnia</i> sp. Acute Imm. Test	532 mg/l (Crustacea (<i>Daphnia magna</i>)) (EC50/24h)
OECD 203: Fish, Acute Toxicity Test (@96h)	532 mg/l (Fish (<i>Lepomis macrochirus</i>))
OECD 209: Activated Sludge, Respiration Inhibition	>500 mg/l (Sludge inhibition)
OECD 210: Fish early life stage toxicity test	≥36.9 mg/l (Fish (<i>Brachydanio Rerio</i>)) (NOEC 35D)
OECD 211: <i>Daphnia magna</i> Reproduction Test	25 mg/l (Crustacea (<i>Daphnia magna</i>)) (NOEC 21d)
EC50/48h	>100 mg/l (Crustacea (<i>Daphnia magna</i>))
EC50/72h	>100 mg/l (Algae)
NOEC (21d)	25 mg/l (Crustacea (<i>Daphnia magna</i>))
NOEC (34d)	>25.7 mg/l (Fish (<i>Danio Rerio</i>))
NOEC (env)	84 mg/kg (Plants (terrestrial))
CAS: 497-19-8 sodium carbonate	
LC50/48h	176 mg/l (Crustacea)
	265 mg/l (Crustacea (<i>Daphnia magna</i>))
EC50/96h	242 mg/l (Algae)
LC50/96h	300 mg/l (Fish (<i>Lepomis macrochirus</i>))
	1,200 mg/l (guinea pig)
	341 mg/l (Wurm (<i>Dugesia</i>))
	300 mg/l (Fish)

*12.2 Persistence and degradability No further relevant information available.

*Degree of elimination:

CAS: 8002-33-3 castor oil, sulfated

Biodegradation >90 % (-)

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

OECD 301E: Modified OECD Screening 10 % (-) (28d)

OECD 302A: Modified SCAS Test 90-100 % (-) (28d)

OECD 302B: (Elimination) Zahn-Wellens 0-10 % (-) (28d)

ThOD (Theoretical Oxygen Demand) 0.654 g O₂/g (-)

*12.3 Bioaccumulative potential No further relevant information available.

*Test data:

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

OECD 107: Log Pow ≤3.86 (-)

BCF Bioaccumulation 1-2 (Fish (*Lepomis macrochirus*)) (28d)

*12.4 Mobility in soil No further relevant information available.

*12.5 Results of PBT and vPvB assessment

*PBT: Based on available data, the classification criteria are not met.

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* **vPvB:** Based on available data, the classification criteria are not met.

* **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

* **12.7 Other adverse effects**

* **Ecotoxicological effects:**

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

OECD 207: Earthworm, Acute Toxicity Tests 156 mg/kg (Rain Worm (*Eisenia fetida*)) (LC50 14D)

* **Additional ecological information:**

* **General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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.

* **European waste catalogue**

The EC waste catalog number (EAC) can only be determined after the type of use by the end-user is known for this product.

* **Uncleaned packagings:**

* **Recommendation:**

Disposal must be made according to official regulations.

Dispose of packaging according to regulations on the disposal of packagings.

* **Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

* **14.1 UN number or ID number**

* **ADR/RID/ADN, IMDG, IATA**

UN1814

* **14.2 UN proper shipping name**

* **ADR/RID/ADN**

1814 POTASSIUM HYDROXIDE SOLUTION

* **IMDG, IATA**

POTASSIUM HYDROXIDE SOLUTION

* **14.3 Transport hazard class(es)**

* **ADR/RID/ADN**



* **Class**

8 (C5) Corrosive substances.
Corrosive substances.

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* Label	8
* ADN	
* ADN/R Class:	Not determined.
* IMDG, IATA	
	
* Class	8 Corrosive substances.
* Label	8
* 14.4 Packing group	
* ADR/RID/ADN, IMDG, IATA	II
* 14.5 Environmental hazards:	
* Marine pollutant:	No
* 14.6 Special precautions for user	Warning: Corrosive substances.
* Hazard identification number (Kemler code):	80
* EMS Number:	F-A,S-B
* Segregation groups	Alkalis
* Stowage Category	A
* Segregation Code	SG35 Stow "separated from" SGG1-acids
* 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
* ADR/RID/ADN	
* Limited quantities (LQ)	1L
* Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
* Transport category	2
* Tunnel restriction code (EU)	E
* Remarks:	TREMCARD http://www.unece.org/trans/danger/publi/adr/adr_linguistic_e.htm
* IMDG	
* Limited quantities (LQ)	1L
* Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
* UN "Model Regulation":	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II

EU

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SECTION 15: Regulatory information

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

*** Directive 2012/18/EU**

*** Named dangerous substances - ANNEX I** None of the ingredients is listed.

*** National regulations**

*** Information about limitation of use:**

Employment restrictions concerning young persons must be observed. Source: 94/33/EC

*** "Australia Group Common Control List" (2009) - <http://www.australiagroup.net/en/precursors.html>**

None of the ingredients is listed.

*** Chemical Weapons Convention Annex 1 - www.opcw.org (2011)**

None of the ingredients is listed.

*** Chemical Weapons Convention Annex 2 - www.opcw.org (2011)**

None of the ingredients is listed.

*** Chemical Weapons Convention Annex 3 - www.opcw.org (2011)**

None of the ingredients is listed.

*** INFCIRC254 Rev. 10 (06/2011) - www.nuclearsuppliersgroup.org**

None of the ingredients is listed.

*** "Wassenaar Arrangement" Munitions list Ver.10 (2010) - www.wassenaar.org**

None of the ingredients is listed.

*** Missile Technology Control Regime List (04/2011) - www.mtcr.info**

None of the ingredients is listed.

*** 2455/2001/EC list of priority substances in the field of water policy**

None of the ingredients is listed.

*** UN International Narcotics Control Board (01/2011) "Red List" - www.incb.org**

None of the ingredients is listed.

*** UN International Narcotics Control Board (05/2010) "Green List" - www.incb.org**

None of the ingredients is listed.

*** UN International Narcotics Control Board (12/2010) "Yellow List" - www.incb.org**

None of the ingredients is listed.

*** RoHS 2015/863/EU**

None of the ingredients is listed.

*** Global Automotive Declarable Substance List (GADSL)** Not applicable

*** 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

*** Relevant phrases**

H290 May be corrosive to metals.

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*H302 Harmful if swallowed.**H314 Causes severe skin burns and eye damage.**H315 Causes skin irritation.**H318 Causes serious eye damage.**H319 Causes serious eye irritation.**H332 Harmful if inhaled.**H373 May cause damage to organs through prolonged or repeated exposure.**** Additional information concerning the use P30 Shake or mix before use***** Department issuing SDS: Product Safety Department***** Contact:** Contact information can be found in chapter 1: Supplier information*** Label text**Kenmerken:

Vloeibare fosfaatvrije sterke hogedrukreiniger. Onthard het water waardoor verstopping niet voor komt. Geschikt voor ferro en non-ferro metalen. Het product is door TNO gekeurd als zijnde snelscheidend.

Toepassing:

Het produkt wordt met succes toegepast voor het reinigen van landbouwwerktuigen, machines, gevels, vloeren, roetschades en vele andere te reinigen objecten.

Installatie:

Het produkt wordt gebruikt in een hogedrukreiniger. Ook kan men van te voren het te reinigen object met een spuit innevelen, waarna men het met hoge druk afspuist.

Concentratie:

Bij gebruik in hogedrukreiniger maakt men een 20% oplossing die door de hogedrukreiniger opgezogen wordt. Bij het innevelen is een oplossing van 10% voldoende.

Conditie:

Enige seconden tot 1 minuut per vierkante meter, bij een temperatuur van 10 tot 150°C.

Nabewerking:

Afhankelijk van de verdere bewerking wordt afgespoeld.

Afvalwater:

Daar het Produkt snelscheidend en biologisch afbreekbaar is, kan afhankelijk van de plaatselijk geldende normen en regels via een olieafscheider geloosd worden.

*** Abbreviations and acronyms:**

To the best of our knowledge, the information contained herein is accurate. However, neither the above supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

ADR: Accord relatif au transport international des marchandises dangereuses par 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: 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)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
**** Data compared to the previous version altered.**

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