

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING *

1.1. Product identifier

Product name : AQUAFINESSE SPACLEAN
 Product code : SWE-SC

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

Application : SU21 Consumer product. PC35 Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier : AquaFinesse Nederland
 Plesmanstraat 50
 3905 KZ VEENENDAAL, The Netherlands
 Telephone : +31 318 525 311
 Fax : +31 318 551 836
 E-mail : msds@aquafinesse.com

Distributor : AquaFinesse LLC
 3226 Taylorsville Highway
 Statesville, NC 28625

Telephone : (513)530-0800
 Website : www.aquafinesse.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
 NL - Telephone : +31 318 525 311 (During office hours only)
 EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
 National Poisons Information Service : +44-844 892 0111 (24/7)
 U.S. PERS Emergency Telephone : 1-800-633-8253

SECTION 2 HAZARDS IDENTIFICATION *

2.1. Classification of the substance or mixture

Classification (99/45/EC) : Corrosive.
 CLP classification (1272/2008/EC) : Skin corrosive, category 1B. Specific target organ toxicity after single exposure, category 3. Corrosive to metals, hazard category 1.
 Human health hazards : Causes severe skin burns and eye damage. May cause respiratory irritation.
 Physical/chemical hazards : Reacts vigorously in contact with acids. Strong heat development possible. May be corrosive to metals.
 Environmental hazards : Not classified as dangerous according to statutory EC-Directives.
 Other information : Keep locked up and out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.2. Label elements (99/45/EC)



Hazard symbols : C: Corrosive

R- and S-phrases : R34 Causes burns.
 R37 Irritating to respiratory system.
 S1/2 Keep locked up and out of the reach of children.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Label elements (1272/2008/EC):



Hazard pictograms :
 Signal word : Danger

H- and P-phrases : H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P260 Do not breathe dust.
 P271 Use only outdoors or in a well-ventilated area.
 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/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.
 P310 Immediately call a POISON CENTER/doctor.
 P363 Wash contaminated clothing before reuse.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P234 Keep only in original container.
 P390 Absorb spillage to prevent material damage.
 P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (99/45/EC and/or 1272/2008/EC)
 : Contains: Disodium metasilicate.

Other information : According to directive 99/45/EC, the packaging of this product shall carry a tactile warning of danger and a child resistant closure. According to regulation (EC) 1272/2008, Annex II, part 3, the packaging of this product shall carry a tactile warning of danger and a child-resistant closure.

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS *

3.1. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance Name	Concentration (w/w) (%)	CAS #	EC Number	Symbols	R-Phrases
Sodium Carbonate	25 - 50	497-19-8	207-838-8	Xi	36
Disodium Metasilicate	20 - <25	6834-92-0	229-912-9	C	34-37
Sulfuric acid, aluminum potassium salt (2:1:1), dodecahydrate	10 - <20	7784-24-9	616-521-7	-----	-----

Reference is made to chapter 16 for full text of each relevant R phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

Substance name	REACH #	Hazard class	Pictograms	H-phrases
Sodium Carbonate	01-2119485498-19	Eye Irrit. 2	GHS07	H319
Disodium Metasilicate	01-2119449811-37	Met. Corr. 1; Skin Corr. 1B; STOT SE 3	GHS05; GHS07	H290; H314; H335
Sulfuric acid, aluminum potassium salt (2:1:1), dodecahydrate		-----	-----	-----

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES *

4.1. Description of first aid measures

Inhalation : Move victim into fresh air. Consult a doctor.
 Skin contact : Immediately take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor in case burns or irritation occur.
 Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor immediately.
 Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor immediately if victim feels unwell.

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

Inhalation : Corrosive. May cause sore throat and coughing. May cause shortness of breath or lack of breath.
 Skin contact : Corrosive. May cause redness, pain and burns (blisters).
 Eye contact : Corrosive. May cause redness and severe pain. Tears.
 Ingestion : Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhea.

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

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES *

5.1. Extinguishing media

Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.
 Not suitable : None known.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known. Non flammable product.
 Hazardous thermal decomposition products : Not applicable.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Not applicable.

SECTION 6 ACCIDENTAL RELEASE MEASURES *

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Do not breathe dust.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. Large scale discharge causing a very high pH may impair the biological system in sewage plants. Inform the official bodies if necessary.
 Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorized waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE *

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Avoid contact with skin and eyes. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C). Keep away from food, drink and animal feeding stuffs.
 Recommended packaging : Keep only in the original container.
 Non recommended packaging : Steel and aluminum.

7.3. Specific end use(s)

Use : Use only as directed. Do not mix with other products.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION *

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments
Sodium carbonate		1	3	MAC RO
Sulfuric acid, aluminum potassium salt (2:1:1), dodecahydrate	GB	2	-	-
Dust	GB	4	-	Respirable dust
Dust		3	-	MAC: DE, CH

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Sodium carbonate	Inhalation			10 mg/m ³	
Disodium metasilicate	Dermal				1.49 mg/kg bw/day
	Inhalation				6.22 mg/m ³

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Sodium carbonate Disodium metasilicate	Inhalation Dermal Inhalation Oral	10 mg/m ³			0.74 mg/kg bw/day 1.55 mg/m ³ 0.74 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of Exposure	Fresh water	Marine water	
Disodium metasilicate	Water Intermittent water STP	7.5 mg/l	1 mg/l	7.5 mg/l 1000 mg/l

8.2. Exposure controls

Engineering measures

: Comply with standard precautionary measures for working with chemicals.
 : When using do not eat, drink or smoke.

Personal protective equipment

: The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection

: Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: PVC. Indication of permeation breakthrough time: Not known.

Respiratory protection

: Wear appropriate respiratory protection in case of large scale exposure. Suitable: dust mask type FFP1 or higher, in accordance with EN 149.

Hand protection

: Wear appropriate safety gloves in accordance with EN 374. Suitable material: PVC. ± 0.5 mm. Indication of permeation breakthrough time: Not known.

Eye protection

: Wear appropriate safety glasses with side shields, in accordance with EN 166.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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9.1. Information on basic physical and chemical properties

Appearance	: Solid.
Color	: Blue
Odor	: Characteristic.
Odor threshold	: Not known.
pH	: 12.5 - 10% solution.
Solubility in water	: Soluble.
Partition coefficient (n-octanol/water)	: Not known.
Flash point	: Not applicable. Solid.
Flammability (solid, gas)	: Not flammable.
Auto ignition temperature	: Not known. Does not contain substances with a known auto ignition temperature.
Boiling point/boiling range	: > 100 °C
Melting point/melting range	: Not known.
Explosive properties	: None known. Does not contain explosives.
Explosion limits (in air)	: Not applicable.
Oxidizing properties	: Not applicable. Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.
Viscosity (20°C)	: Not applicable. Solid.
Vapor pressure (20°C)	: Very low. Solid.
Vapor density (20°C)	: Not applicable. The solvent content of this product is less than 1%.
Relative density (20°C)	: 1 g/ml
Evaporation rate	: Very low. Solid.

SECTION 10 STABILITY AND REACTIVITY *

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from acids.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION *

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 7,207 mg/l. Ingredients of unknown toxicity: 26 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Respiratory system. Effect(s): May cause irritation to respiratory airways and coughing.
- Corrosion/irritation : Corrosive. May cause sore throat and coughing. May cause pulmonary edema. Symptoms of pulmonary edema often manifest after several hours. May cause irritation to respiratory airways and coughing.
- Sensitization : Does not contain respiratory sensitizers. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Corrosive. May cause redness, pain and burns (blisters).
- Sensitization : Does not contain skin sensitizers. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Corrosive. Risk of serious damage to eyes.

Ingestion

- Acute toxicity : Calculated LD50: > 1749 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhea.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Disodium metasilicate	LD50 (oral)	662 mg/kg bw	-----	Mouse
	Eye irritation – estimate	Corrosive.		Rabbit
	LD50 (oral) – estimate	> 2000 mg/kg bw	-----	-----
	LC50 (inhalation) – estimate	> 5000 mg/m ³	-----	-----
	NOAEL (oral)	127 mg/kg bw/d	-----	Rat
	LD50 (dermal) – estimate	>5000 mg/kg bw	-----	Rat
	Skin sensitization	Not sensitizing	OECD 429	Mouse
	Genotoxicity – in vivo	Not genotoxic	OECD 475	Mouse
	Genotoxicity – in vitro	Not genotoxic	OECD 473	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin irritation	Corrosive.	OECD 404	Rabbit

SECTION 12 ECOLOGICAL INFORMATION *

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 286 mg/l. Calculated EC50 (waterflea): 678 mg/l. Contains 13% of components with unknown hazards to the aquatic environment. Not classified – based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Persistence – degradability : No specific information known.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB Assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

12.6. Other adverse effects

Other information : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS *

13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

Additional warning : None.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION *

14.1. UN number

UN number : UN 3253

14.2. UN proper shipping name

Transport name : DISODIUM TRIOXOSILICATE

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 8
 Classification code : C6
 Packaging group : III
 Danger label : 8



IMDG (sea)

Class : 8
 Packaging group : III
 EmS (fire / spill) : F - A / S - B
 Marine pollutant : No

IATA (air)

Class : 8

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

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

Marpol : Not intended to be carried in bulk according to International Maritime Organization (IMO) instruments.

SECTION 15 REGULATORY INFORMATION

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15.1. SARA Title III

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Acute Health Hazard

15.2. State Regulations

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components	CAS-No.	Revision Date
Sodium carbonate	497-19-8	
Disodium metasilicate	6834-92-0	
Aluminium potassium bis(sulphate)	7784-24-9	

New Jersey Right To Know Components	CAS-No.	Revision Date
Sodium carbonate	497-19-8	
Disodium metasilicate	6834-92-0	
Aluminium potassium bis(sulphate)	7784-24-9	

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

Community regulations : Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

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16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Full text of R-phrases mentioned in section 3:

- R34 Causes burns.
- R36 Irritating to eyes.
- R37 Irritating to respiratory system.

Full text of H-phrases mentioned in section 3:

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE : Acute Toxicity Estimate
- CLP : Classification, Labeling & Packaging
- CMR : Carcinogenic, Mutagenic or toxic for Reproduction
- EEC : European Economic Community
- IATA : International Air Transport Association
- IBC code : International Bulk Chemical Code
- IMDG : International Maritime Dangerous Goods Code
- LD50/LC50 : Lethal Dose/Concentration for 50% of a population
- MAC : Maximum Allowable Concentration
- MARPOL : International Convention for the Prevention of Pollution From Ships
- NO(A)EL : No Observed (Adverse) Effect Level
- OECD : Organization for Economic Co-operation and Development
- PBT : Persistent, Bioaccumulative and Toxic
- PC : Chemical product category
- PT : Product type
- REACH : Registration, Evaluation, Authorization and Restriction of Chemicals
- RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
- STP : Sewage Treatment Plant
- SU : Sector of Use
- TWA/STEL : Time-Weighted Average/Short Term Exposure Limit
- UN : United Nations
- VOC : Volatile Organic Compounds
- vPvB : Very Persistent and Very Bioaccumulative

Number format : "," used as decimal separator.

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