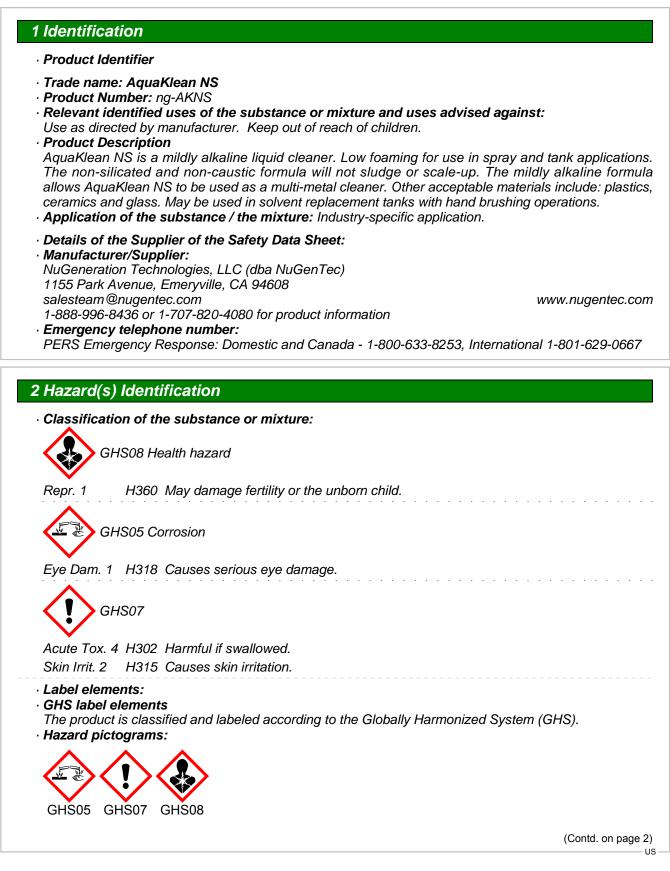


OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

#### Issue date 10/14/2016

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Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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ade name: AquaKlean NS		
Signal word: [	Danger	
Hazard-detern	nining components of labeling:	
Proprietary Sur	factant	
Hazard statem	ients:	
H302 Harmful i	f swallowed.	
H315 Causes s	skin irritation.	
H318 Causes s	serious eye damage.	
	age fertility or the unborn child.	
Precautionary		
P280	Wear protective gloves.	
P280	Wear eye protection / face protection.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P305+P351+P3	338 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.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
P321	Specific treatment (see supplementary first aid instructions on this Safety Data	
	Sheet).	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P330	Rinse mouth.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national	
	international regulations.	
Unknown acut		
	rs to knowledge of known, established toxicological or ecotoxicological values.	
2.7 % of the mi	xture consists of component(s) of unknown toxicity.	
Classification	system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme	
NFPA ratings		

NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)

HEALTH *1	Health = *1
	Fire = 0
REACTIVITY 0	Reactivity = $0$

· Hazard(s) not otherwise classified (HNOC): None known

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Trade name: AquaKlean NS

Non-hazardous components:	
7732-18-5 Water, distilled water, deionized water	<i>≥</i> 85%
Chemical characterization: Mixtures Description: Mixture of substances listed below with non-hazardous additions.	· ·
Dangerous Components:	
Proprietary Surfactant	2-12%
😔 Skin Corr. 1C, H314; 🚸 Acute Tox. 4, H302; Acute Tox. 4, H312	
Proprietary Hydrotrope	2-12%
🚸 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
Proprietary Salt	2-12%
Proprietary Salt 3	2-12%
🚸 Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
Proprietary Solvent	<i>≤</i> 2.5%
🚸 Eye Irrit. 2A, H319; Flam. Liq. 4, H227	
Proprietary Salt 2	<i>≤</i> 2.5%
🚸 Repr. 1B, H360; Eye Irrit. 2B, H320	
Additional information:	I
The exact percentages of the ingredients of this mixture are considered to	
withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 2 Secrets.	9 CFR 1910.1200 Trac

## 4 First-Aid Measures

- · Description of first aid measures:
- After inhalation: Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
  After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.
  After eye contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
  After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting without medical advice. If vomiting does occur, repeat fluid administration Seek immediate medical advice.
- · Information for doctor:
- *Most important symptoms and effects, both acute and delayed:* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

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#### 5 Fire-Fighting Measures

- · Extinguishing media:
- Suitable extinguishing agents:
- CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- $\cdot$  For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters:
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

<ul> <li>Personal precautions, protective equipment and emergency proce Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep people at a distance and stay upwind. Avoid contact with skin, eyes and clothing.</li> <li>Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.</li> <li>Methods and material for containment and cleaning up: Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, u Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.</li> </ul>			
Dispose of the collected material according to regulations.			
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.			
· Protective Action Criteria for Chemicals			
· PAC-1:			
Proprietary Salt	15 mg/m3		
Proprietary Salt 4	9.6 mg/m3		
Proprietary Solvent	30 ppm		
· PAC-2:	· · · · · · · · · · · · · · · · · · ·		
Proprietary Salt	130 mg/m3		
Proprietary Salt 4	110 mg/m3		
Proprietary Solvent 33 pp			
· PAC-3:			
Proprietary Salt	790 mg/m3		
Proprietary Salt 4	630 mg/m3		
Proprietary Solvent	200 ppm		
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## 7 Handling and Storage

- · Handling
- Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep protective respiratory device available.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

## 8 Exposure Controls/Personal Protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### **Proprietary Salt**

REL Long-term value: 5 mg/m<sup>3</sup>

TLV TLV withdrawn

#### **Proprietary Solvent**

TLV Long-term value: 67.5\* mg/m<sup>3</sup>, 10\* ppm \*Inhalable fraction and vapor

#### **Proprietary Salt 2**

REL Long-term value: 1 mg/m<sup>3</sup>

TLV Short-term value: 6\* mg/m<sup>3</sup> Long-term value: 2\* mg/m<sup>3</sup> \*as inhalable fraction

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

#### · Exposure controls:

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and 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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

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

· Eye protection:



Tightly sealed goggles

· Body protection:



Protective work clothing

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Amber	
Odor:	Mild	
Odor threshold:	Not determined.	
pH-value @ 20 °C (68 °F):	9.5 - 10.5	
Change in condition		
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	100 °C (212 °F)	



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Flash point:	None
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)
Density @ 20 °C (68 °F): Relative density: Vapor density: Evaporation rate:	1.085 g/cm <sup>3</sup> (9.054 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with: Water:	Fully miscible.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content:	
Organic solvents:	1.8 %
Water: VOC content:	82.2 % 1.8 %
Solids content:	8.9 %
Other information:	No further relevant information available.

## 10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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	cicity:	cological effects:
· LD/LC30	values tha	t are relevant for classification:
Proprieta	ry Surfact	ant
Oral	LD50	>1410 mg/kg (rat)
Dermal	LD50	2370 mg/kg (rabbit)
Proprieta	ry Hydroti	оре
Oral	LD50	>7.200 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rabbit)
Proprieta	ry Solvent	
Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rabbit)
Proprieta	ry Salt 2	
Oral	LD50	3305 mg/kg (rat)
Inhalative	LC50/4 h	>2.0 mg/l (rat)
	erious eye <b>al toxicolo</b> g	irritation. gical information:
	uct shows	the following dangers according to internally approved calculation methods
The produ preparation Harmful Irritant • Carcinog • IARC (Inte Group 1 - Group 2A Group 2B Group 3 -	uct shows ons: enic categ ernational Carcinoge - Probably - Possibly Not classif	the following dangers according to internally approved calculation methods
The produ preparatio Harmful Irritant • Carcinog • IARC (Inte Group 1 - Group 2A Group 2B Group 3 - Group 4 -	uct shows ons: enic categ ernational Carcinoge - Probably Not classif Probably r	the following dangers according to internally approved calculation methods <b>fories:</b> <b>Agency for Research on Cancer):</b> nic to humans carcinogenic to humans carcinogenic to humans iable as to its carcinogenicity to humans
The produ preparation Harmful Irritant • Carcinoge • IARC (Inte Group 1 - Group 2A Group 2B Group 3 - Group 4 - None of th	uct shows ons: enic categ ernational Carcinoge - Probably - Possibly Not classif Probably r ne ingredie	the following dangers according to internally approved calculation methods <b>Fories:</b> <b>Agency for Research on Cancer):</b> nic to humans carcinogenic to humans carcinogenic to humans iable as to its carcinogenicity to humans pot carcinogenic to humans

# 12 Ecological Information

• **Toxicity:** The hazards for the aquatic environment are unknown.

· Aquatic toxicity: No further relevant information available.

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- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

## 13 Disposal Considerations

- · Waste treatment methods:
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packagings

· Recommendation:

Disposal must be made according to official regulations.

Dispose of as unused product.

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

## 14 Transport Information

· UN-Number: · DOT, ADR, IMDG, IATA	Non-Regulated Material	
· UN proper shipping name: · DOT, IMDG, IATA	Non-Regulated Material	
· Transport hazard class(es):		
· DOT, ADR, IMDG, IATA · Class:	Non-Regulated Material	
· Packing group: · DOT, ADR, IMDG, IATA	Non-Regulated Material	
· Environmental hazards:	Not applicable.	
· Special precautions for user:	Not applicable.	
<ul> <li>Transport in bulk according to Annex I MARPOL73/78 and the IBC Code:</li> </ul>	l of Not applicable.	
		(Contd. on page 1

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· UN "Model Regulation":

Non-Regulated Material

## 15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture: · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

- · Section 313 (Specific toxic chemical listings):
- Proprietary Solvent

· TSCA (Toxic Substances Control Act):

- Proprietary Surfactant
- Proprietary Hydrotrope
- Proprietary Salt

Proprietary Salt 3

- Proprietary Salt 4 Proprietary Solvent
- Proprietary Chelating Agent
- 7732-18-5 Water, distilled water, deionized water
- · California Proposition 65:
- · Chemicals known to cause cancer:
- None of the ingredients are listed.
- Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· New Jersey Right-to-Know List:

Proprietary Salt

· New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

### · Pennsylvania Right-to-Know List:

Proprietary Salt

#### · Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

### · Carcinogenic categories:

· EPA (Environmental Protection Agency):

Proprietary Salt 2

I (oral)

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<b>TIV(/T) : :</b>	
•	d Limit Value established by ACGIH):
Proprietary Salt	A4
•	tional Institute for Occupational Safety and Health):
-	redients are listed.
GHS label elem The product is a Hazard pictoge	classified and labeled according to the Globally Harmonized System (GHS).
GHS05 GHS	07 GHS08
· Signal word: D	Danger
<ul> <li>Hazard-determ</li> <li>Proprietary Sun</li> <li>Hazard statem</li> </ul>	
H302 Harmful it	
H315 Causes s	
	erious eye damage.
	age fertility or the unborn child.
Precautionary     P280	Wear protective gloves.
P280 P280	Wear eye protection / face protection.
P260 P264	Wash thoroughly after handling.
P204 P270	Do not eat, drink or smoke when using this product.
P201	
P201 P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
	338 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.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see supplementary first aid instructions on this Safety Dat Sheet).
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/nationa
P301	international regulations.

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

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## 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision. 10/14/2010/ -	
<ul> <li>Abbreviations and acronyms:</li> </ul>	
ADR: The European Agreement concerning the International Carriage of Dangerous Good	
ADN: The European Agreement concerning the International Carriage of Dangerous Good	ls by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
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)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, ÉU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Flam. Liq. 4: Flammable liquids – Category 4	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Corr. 1C: Skin corrosion/irritation – Category 1C	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B	
Repr. 1: Reproductive toxicity – Category 1	
Repr. 1B: Reproductive toxicity – Category 1B	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	
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