

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

10 data 07/20/2016 1.

Reviewed on 07/29/2016

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1 Identification	
· Product Identifier	
 Trade name: AquaKlean 1400 Product Number: ng-AK1400 Relevant identified uses of the substance or mix For professional use only. 	cture and uses advised against:
 Details of the Supplier of the Safety Data Sheet: Manufacturer/Supplier: NuGeneration Technologies, LLC (dba NuGenTec) 1155 Park Avenue, Emeryville, CA 94608 	
salesteam@nugentec.com 1-888-996-8436 or 1-707-820-4080 for product info Emergency telephone number:	www.nugentec.com
PERS Emergency Response: Domestic and Canad	a - 1-800-633-8253, International 1-801-629-0667
2 Hazard(s) Identification	
• Classification of the substance or mixture:	
Eye Dam. 1 H318 Causes serious eye damage.	
Skin Irrit. 2 H315 Causes skin irritation.	
 Label elements: GHS label elements The product is classified and labeled according to the product is classified and labeled according to the second seco	ne Globally Harmonized System (GHS).
GHS05	
· Signal word: Danger	
· Hazard-determining components of labeling:	
Proprietary Hydrotrope	
H315 Causes skin irritation. H318 Causes serious eye damage.	
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Trade name: AquaKlean 1400 · Precautionary statements: P280 Wear protective gloves. P280 Wear eye protection / face protection. P264 Wash thoroughly after handling. P305+P351+P338 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/doctor. P310 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet). If skin irritation occurs: Get medical advice/attention. P332+P313 P302+P352 IF ON SKIN: Wash with plenty of water. P362+P364 Take off contaminated clothing and wash it before reuse. · Unknown acute toxicity: 3 % of the mixture consists of component(s) of unknown toxicity. · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme · NFPA ratings (scale 0 - 4) Health = 1Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1FIRE 0 Fire = 0Reactivity = 0REACTIVITY 0

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

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of substances listed below with non-hazardous additions.

CAS: 7320-34-5	Tetrapotassium Pyrophosphate	15-35%
RTECS: JL6735000	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
	Proprietary Hydrotrope	4%
	🔶 Eye Dam. 1, H318	
	Proprietary Surfactant	1%
	♦ Acute Tox. 3, H331; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Acute Tox. 4, H302; Eye Irrit. 2A, H319	

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

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4 First-Aid Measures

- · Description of first aid measures:
- General information:

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· 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: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · 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

If swallowed and symptoms occur, consult a doctor.

- 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.

5 Fire-Fighting Measures

- · Extinguishing media:
- · Suitable extinguishing agents:
- CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · 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

 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
 Environmental precautions: Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
 Methods and material for containment and cleaning up: Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

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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.

7 Handling and Storage

· Handling

- **Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities: Store away from strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- · Storage
- · Requirements to be met by storerooms and receptacles: Store in the original container.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- 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 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · 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. 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

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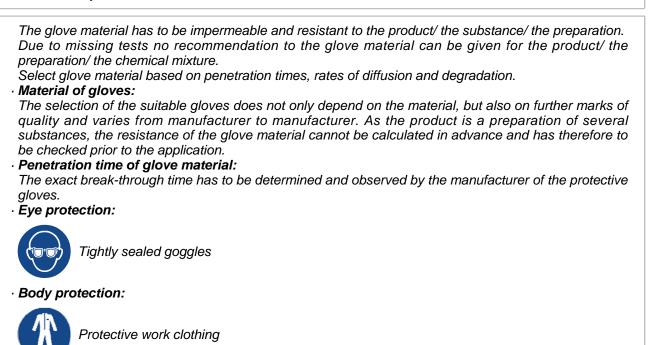


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9 Physical and Chemical Properties

 Information on basic physical and c General Information 	chemical properties
· Appearance:	
Form:	Liquid
Color:	Amber
· Odor:	Mild
· Odor threshold:	Not determined.
· pH-value (50 g/l) @ 20 °C (68 °F):	10.6-10.6
· Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	None
· Flammability (solid, gaseous):	Product is not flammable.
· Ignition temperature:	240 °C (464 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
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Explosion limits:		
Lower:	0.0 Vol %	
Upper:	0.0 Vol %	
Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density @ 20 °C (68 °F):	1.195 g/cm³ (9.972 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with:		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity:		
Dynamic @ 20 °C (68 °F):	1 mPas	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	74.4 %	
Solids content:	16.8 %	
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: Strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

7320-34-5 Tetrapotassium Pyrophosphate

- Oral LD50 >2000 mg/kg (mouse)
- Dermal LD50 >4640 mg/kg (rabbit)

Proprietary Surfactant

Oral LD50 1800 mg/kg (rat)

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Inhalative	LD50	8000 mg/kg (rat)
	LC50/4 h	8.9 mg/l (Pimephales)
On the ey Strong irri Causes so Additional	kin: Irritant ye: itant with th erious eye al toxicolo uct shows	to skin and mucous membranes. ne danger of severe eye injury.
Group 1 - Group 2A Group 2B	Carcinoge - Probably - Possibly	Agency for Research on Cancer): nic to humans carcinogenic to humans carcinogenic to humans fiable as to its carcinogenicity to humans
Group 4 -	Probably r	not carcinogenic to humans nts are listed.
Group 4 - None of th	Probably r he ingredie	not carcinogenic to humans nts are listed.
Group 4 - None of th • NTP (Nat	Probably r he ingredie ional Toxi	not carcinogenic to humans
Group 4 - None of th • NTP (Nat None of th	Probably r he ingredie ional Toxi he ingredie	not carcinogenic to humans nts are listed. cology Program):

Aquatic toxicity:

Proprietary Surfactant

EC50 26 mg/l (daphnia)

- 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.

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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.

UN-Number: DOT, ADR, ADN, IMDG, IATA	Non-Regulated Material
UN proper shipping name: DOT, ADR, ADN, IMDG, IATA	Not Regulated for Transportation Non-Regulated Material
Transport hazard class(es):	
DOT, ADR, ADN, 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.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
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.

None of the ingreatents are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

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California P	roposition 65:
Chemicals k	nown to cause cancer:
None of the i	ingredients are listed.
Chemicals k	nown to cause reproductive toxicity for females:
None of the i	ingredients are listed.
Chemicals k	nown to cause reproductive toxicity for males:
None of the i	ingredients are listed.
Chemicals k	nown to cause developmental toxicity:
None of the i	ingredients are listed.
New Jersey	Right-to-Know List:
None of the i	ingredients are listed.
New Jersey	Special Hazardous Substance List:
None of the i	ingredients are listed.
Pennsylvan	ia Right-to-Know List:
	ingredients are listed.
Pennsylvan	ia Special Hazardous Substance List:
-	ingredients are listed.
Carcinogen	ic categories:
EPA (Enviro	nmental Protection Agency):
None of the i	ingredients are listed.
TLV (Thresh	nold Limit Value established by ACGIH):
None of the i	ingredients are listed.
NIOSH-Ca (l	National Institute for Occupational Safety and Health):
None of the i	ingredients are listed.
GHS label e The product Hazard picto	is classified and labeled according to the Globally Harmonized System (GHS).
GHS05	
Signal word	: Danger
Hazard-dete Proprietary F Hazard state H315 Cause H318 Cause Precautiona	ermining components of labeling: Hydrotrope ements: s skin irritation. s serious eye damage. Hy statements:
P280	Wear protective gloves.

Wear eye protection / face protection. Wash thoroughly after handling. P280 P264

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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.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data
	Sheet).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
· National regula	ations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

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

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: 07/29/2016 / -

Abbreviations and acronyms: ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods 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) 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 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 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 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 • * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106