

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

#### Issue date 05/29/2017

4:6:

Reviewed on 05/29/2017

1 Identification	า
· Product Identif	ier
No further relevant • <b>Product Descri</b>	
<ul> <li>Manufacturer/S NuGeneration T 1155 Park Aven salesteam@nug 1-888-996-8436</li> <li>Emergency tele</li> </ul>	echnologies, LLC (dba NuGenTec) ue, Emeryville, CA 94608
2 Hazard(s) Ide	entification
· Classification of	of the substance or mixture:
<b>С</b> С С Н Б Н SO	7
Skin Irrit. 2 H3	15 Causes skin irritation.
	19 Causes serious eye irritation.
Label elements     GHS label elem The product is c     Hazard pictogr	<b>nents</b> lassified and labeled according to the Globally Harmonized System (GHS).
GHS07	
Signal word: W Hazard statem H315 Causes sl H319 Causes so Precautionary	ents: kin irritation. erious eye irritation.
P264	Wash thoroughly after handling.
P280 P302+P352 P305+P351+P3	Wear protective gloves / eye protection / face protection. IF ON SKIN: Wash with plenty of water. 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,
P321	if present and easy to do. Continue rinsing. Specific treatment (see supplementary first aid instructions on this Safety Data
	Sheet).
P332+P313 P337+P313	If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
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P362+P364 Take off contaminated clothing and wash it before reuse.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values. 2 % 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 = 1

Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 1 Health = 1FIRE 0 Fire = 0Physical Hazard = 0 REACTIVITY 0

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

### 3 Composition/Information on Ingredients

· Non-hazardous components:

7732-18-5 Water, distilled water, deionized water

70-90%

· Chemical characterization: Mixtures

· Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:				
CAS: 77-92-9 RTECS: GE 7350000	Citric Acid	🚸 Skin Irrit. 2, H315; Eye Irrit. 2A, H319	15-35%	
	Proprietary polymer	🚸 Skin Irrit. 2, H315; Eye Irrit. 2B, H320	<i>≤</i> 2.5%	

#### · 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.

# 4 First-Aid Measures

- · Description of first aid measures:
- After inhalation: 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 at least 15 minutes under running water. If symptoms persist, consult a doctor. If easy to do so, remove contact lenses if worn. If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

· After swallowing: If swallowed and symptoms occur, consult a doctor.

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- · 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: Use fire fighting measures that suit the environment.
- · 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: Not required.
- Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

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:

None of the ingredients are listed.

#### · PAC-2:

None of the ingredients are listed.

· PAC-3:

None of the ingredients are listed.

### 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.

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- · Conditions for safe storage, including any incompatibilities:
- · 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:
- 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:

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.

· 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.

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· Eye protection:



Tightly sealed goggles

Information on basic physical and General Information	chemical properties
Appearance: Form: Color:	Liquid Light yellow
Odor: Odor threshold:	Mild Not determined.
pH-value @ 20 °C (68 °F):	2.4
Change in condition Melting point/Melting range: Boiling point/Boiling range:	 100 °C (212 °F)
Flash point:	None
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	1,010 °C (34,50 °F)
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:	0.0 Vol % 0.0 Vol %
Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)
Density @ 20 °C (68 °F):	1.136 g/cm³ (9.48 lbs/gal)
Bulk density: Relative density: Vapor density: Evaporation rate:	9.5 #/gal Not determined. Not determined. Not determined.
Solubility in / Miscibility with: Water:	Fully miscible.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity: Dynamic @ 20 °C (68 °F): Kinematic:	1 mPas Not determined.



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· Solvent content:			
Organic solvents:	0.0 %		
Water:	73.0 %		
Solids content:	25.0 %		
· 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.

Acute t	-	t are relevant for classification:	
77-92-9 Citric Acid			
Oral	LD50	5040 mg/kg (Mouse)	
		5400 mg/kg (Rat)	
Dermal	LD50	>2000 mg/kg (Rat)	
	LC50/48 hrs	440 mg/l (Daphnia)	
Additio	παι τοχιζοιος	gical information:	
	oduct shows	<b>gical information:</b> the following dangers according to internally approved calculation methods fo	
The pro prepara Irritant	oduct shows	the following dangers according to internally approved calculation methods fo	
The pro prepara Irritant <b>Carcine</b>	oduct shows tions: ogenic categ	the following dangers according to internally approved calculation methods fo	
The pro prepara Irritant Carcine IARC (I	oduct shows tions: ogenic categ	the following dangers according to internally approved calculation methods fo ories: Agency for Research on Cancer):	
The propaga prepaga Irritant <b>Carcine</b> IARC (I None of	oduct shows tions: ogenic categ nternational f the ingredier	the following dangers according to internally approved calculation methods for ories: Agency for Research on Cancer):	
The propara prepara Irritant <b>Carcino</b> IARC (I None of NTP (N	oduct shows tions: ogenic categ nternational f the ingredier	the following dangers according to internally approved calculation methods for ories: Agency for Research on Cancer): Ints are listed. cology Program):	



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· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

# 12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:
- 77-92-9 Citric Acid
- EC50 1534 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 product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- 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: Observe all federal, state and local environmental regulations when disposing of this material.
- · Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number:	New Desidered Material	
· DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material	
• UN proper shipping name:		
· DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material	
· Transport hazard class(es):		
· DOT, ADR/ADN, ADN, IMDG, IATA		
· Class:	Non-Regulated Material	
· Packing group:		
· DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material	

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Not applicable.			
Not applicable.			
· Transport in bulk according to Annex II of			
Not applicable.			
Cleaning Compound, n.o.b.i.n. Non-Hazardous material			
Non-Regulated Material			

15 Re	eaula	atorv	' Info	ormati	ion

• Safety, health and environmental regulations/legislation specific for the substance or mixture: • SARA (Superfund Amendments and Reauthorization): N/A

· Section 355 (extremely hazardous substances):
None of the ingredients are listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.
· TSCA (Toxic Substances Control Act):
77-92-9 Citric Acid
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:
None of the ingredients are listed.
· New Jersey Special Hazardous Substance List:
None of the ingredients are listed.
· Pennsylvania Right-to-Know List:
None of the ingredients are listed.
· Pennsylvania Special Hazardous Substance List:
None of the ingredients are listed.
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Trade name: NuWet 4100 Carcinogenic categories: · EPA (Environmental Protection Agency): None of the ingredients are listed. · TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed. · NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed. · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: GHS07 · Signal word: Warning · Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements: P264 Wash thoroughly after handling. P280 Wear protective gloves / eye protection / face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet). P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. · National regulations: None of the ingredients are listed.

· 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: 05/29/2017 / 1

· 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

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	11 011 201 0100	US
* <b>Data compared to the previous version altered.</b> SDS created by MSDS Authoring Services www.msdsauthoring.com	+1-877-204-9106	
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B		
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A		
Skin Irrit. 2: Skin corrosion/irritation – Category 2		
REL: Recommended Exposure Limit		
TLV: Threshold Limit Value PEL: Permissible Exposure Limit		
OSHA: Occupational Safety & Health Administration		
NIOSH: National Institute for Occupational Safety and Health		
vPvB: very Persistent and very Bioaccumulative		
PBT: Persistent. Bioaccumulative and Toxic		
LD50: Lethal dose, 50 percent		
LC50: Lethal concentration, 50 percent		
NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)		
CAS: Chemical Abstracts Service (division of the American Chemical Society)		
ELINCS: European List of Notified Chemical Substances		
EINECS: European Inventory of Existing Commercial Chemical Substances		
ACGIH: American Conference of Governmental Industrial Hygienists		
IATA: International Air Transport Association		