SECTION 1: Product and Compar	ny Identification
1.1. Identification	
Product form	: Mixture
Product name	: 30% White Distilled Vinegar
Product code	: 30VINEG-1
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Use of the substance/mixture	: Industrial, Residential, and Laboratory use.
	•
1.3.Details of the supplier of the safeEcoclean Solutions570 Oak StCopiague, NY 11726Tel. 888.930.9152info@factorydirectchemicals.com	
1.4. In Case of Emergency	
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazard(a) identificati	
SECTION 2: Hazard(s) identificati 2.1. Classification of the substance of	
GHS-US classification	
Skin corrosion/irritation Category 1C Serious eye damage/eye irritation Category Hazardous to the aquatic environment - Acu	
Full text of H statements: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H402 - Harmful to aquatic life
Precautionary statements (GHS-US)	 P260 - Do not breathe mist, vapors, spray P264 - Wash exposed skin thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves, eye protection P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303 + P361 + P353 - IF ON SKIN (or hair): Remove/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 or doctor/physician P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations If inhaled: Remove person to fresh air and keep comfortable for breathing
2.3. Other hazards	
Other hazards not contributing to the classification	: None.
2.4. Unknown acute toxicity (GHS US	3)
Not applicable	

SECTION 3: Composition/Information on ingredients

3.1. Substance Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	70	Not classified
Acetic Acid	(CAS No) 64-19-7	30	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of hazard classes and H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after eye contact	: Causes serious eye damage.
4.3. Indication of any immediate medical	attention and special treatment needed
Obtain medical assistance.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the sub	-
Reactivity	: Thermal decomposition generates : Corrosive vapors.
5.3. Advice for firefighters	· Lies water apreviation for scaling expand containers. Eversion soution when fighting any
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Gloves. Protective clothing.
Emergency procedures	: Evacuate unnecessary personnel.
C F	
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	authorition if liquid optors powers or public waters
, , ,	authorities if liquid enters sewers or public waters.
6.3. Methods and material for containment	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. **Reference to other sections** See Heading 8. Exposure controls and personal protection. **SECTION 7: Handling and storage** 7.1. Precautions for safe handling Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Hygiene measures : Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse. 7.2. Conditions for safe storage, including any incompatibilities **Technical measures** : Comply with applicable regulations. Storage conditions : Keep container closed when not in use. : Strong oxidizers. metals. Strong bases. Incompatible products Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control paramo	eters	
Acetic Acid (64-19-7)		
ACGIH	ACGIH TWA (ppm)	10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m ³)	25 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
IDLH	US IDLH (ppm)	50 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	25 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	37 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm
Water (7732-18-5)		
Not applicable		

8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

: Gloves. Protective goggles. Protective clothing. High gas/vapor concentration: gas mask with filter type E.



Hand protection Eye protection

- Skin and body protection
- Respiratory protection
- Other information

- : Wear protective gloves.
- : Chemical goggles or face shield.
- : Wear suitable protective clothing.
- : Wear appropriate mask.
- : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1.	Information on basic phy	sical and chemical properties
Physica	al state	: Liquid
Color		: Colorless
Odor		: Vinegar odour

Odor threshold	: 0.21 – 1 ppm
рН	: 2.8
Melting point	: 30° F
Freezing point	: No data available
Boiling point	: No data available
Flash point	: None
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Nonflammable.
Vapor pressure	: 11 mmHg @ 20°C
Relative vapor density at 20 °C	: 2.1 (Acetic Acid)
Relative density	: 1.025
Specific gravity / density	: 1.025 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 1.5 cSt
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidizing.
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Thermal decomposition generates: Corrosive va	pors.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions Reacts violently with (some) bases: release of he	oot .
Readis violentity with (some) bases. release of h	ea.
10.4. Conditions to avoid	
10.4.Conditions to avoidDirect sunlight. Extremely high or low temperatu	res.
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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after eye contact	: Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Acetic Acid, 30%		
Persistence and degradability	Not established.	
Acetic Acid (64-19-7)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.6 - 0.74 g O₂/g substance	
Chemical oxygen demand (COD)	1.03 g O₂/g substance	
ThOD	1.07 g O₂/g substance	
Water (7732-18-5)		
Persistence and degradability	Not established.	

12.3. Bioaccumulative potential

Acetic Acid, 40%		
Bioaccumulative potential	Not established.	
Acetic Acid (64-19-7)		
BCF fish 1	3.16 (BCF; Pisces)	
Log Pow	-0.17 (Experimental value; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Water (7732-18-5)		
Bioaccumulative potential	Not established.	

12.4. Mobility in soil

Acetic Acid (64-19-7)	
Surface tension	0.028 N/m (20 °C)
Log Koc	log Koc,0.06; QSAR
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects Effect on the global warming : No known effects from this product. GWPmix comment : No known effects from this product. Other information : Avoid release to the environment.

SECT	ION 13: Disposal considerati	ions
13.1.	Waste treatment methods	
Waste o	lisposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN2790 Acetic acid solution (with more than 10 percent and less than 50 percent acid, by mass), 8, III
UN-No.(DOT)	: UN2790
Proper Shipping Name (DOT)	: Acetic acid solution
	with more than 10 percent and less than 50 percent acid, by mass
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 8 - Corrosive
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672) T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
Other information	: No supplementary information available.

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Acetic Acid, 30% v/v (1+3)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Acetic Acid (64-19-7)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb

15.2. International regulations		
CANADA		
Acetic Acid, 25% v/v (1+3)		
WHMIS Classification	Class E - Corrosive Material	
Acetic Acid (64-19-7)		
Listed on the Canadian DSL (Domestic Sub	ostances List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material	
Water (7732-18-5)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

EU-Regulations No additional information available

National regulations

Acetic Acid (64-19-7)
Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information	
Revision date	: 3/5/2019
Other information	: None.
Full text of H-phrases: see section 16:	
H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H402	Harmful to aquatic life
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken, and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: H
	H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet