

COUNTY OF ROCKLAND  
Department of General Services  
Purchasing Division

# Contract Award Notification

Title: **Degreaser - Sewer Grease Liquefying Agent, Jet Power II or Equal**

Contract Period: July 8, 2021 through July 7, 2022 with 2 one-year options  
Extended through 7/7/2023 w/ one-year option  
**Extended through 07/07/2024, Ext through 7/7/25**

Original Date of Issue: July 8, 2021

Date of Revision: 07/26/24

**BID No: RFB-RC-2021-038**

**Catalog: Wastewater**

Authorized Users: County Agencies, Political Subdivisions

Address Inquiries to:

Name: Raheela Akhter  
Title: Purchaser I  
Phone: 845-364-3813  
Fax: 845-364-3809  
E-mail: akhterr@co.rockland.ny.us

**Description**

**This contract is to provide degreasers - sewer grease liquefying agents.**

Contract #	Vendor Number	Contractor & Address	Telephone No.
Bid 21-038	0000026972	G & G Enterprises of KS, LLC 5301 Drake Road Greensboro, NC 27406 Contact: Gary R. Johnson seniorvpgg@stny.rr.com	(607) 425-7784  FAX: N/A

**Degreaser - Sewer Grease Liquefying Agent, Jet Power II or Equal**

COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 6TH FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809										
VENDOR: G and G Enterprises of KS, LLC										
LINE NO.	DESCRIPTION	ITEM NUMBER	EST. ANNUAL QTY.	UNIT	UNIT PRICE	EXTENDED PRICE	Packaging Quantity per Pallet/Pail	Manufacturer	Product Code	MANDATORY -% Solution-Enter as a whole number eg 10%-0.10
1	Degreasers - Sewer Grease Liquefying Agents Jet Power II, Fusion 300 or approved equal - Per Gallon Pricing for a pallet of 5 gallon pails, bidder shall list quantity of 5 gallon pails per pallet order	8854600001	600	Per Gallon	<b>\$16.90</b>	\$253.50	120	Safe-Tee Chemical Company LLC. 16585 N 92nd Street, Ste.B110 Scottsdale, AZ 85260	Fusion 300	0.01
2	Degreasers - Sewer Grease Liquefying Agents, Jet Power II, Fusion 300 or approved equal - Per Gallon Pricing for Less than pallet order	8854600002	5	Per Gallon	<b>\$18.95</b>	\$285.25	5	Safe-Tee Chemical Company LLC. 16585 N 92nd Street, Ste.B110 Scottsdale, AZ 85260	Fusion 300	0.01
3	<b>TOTAL</b>			<b>Total Extended Price</b>		<b>\$538.75</b>				

**COUNTY OF ROCKLAND - DGS-PURCHASING**  
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## PURCHASES BY OTHER

### LOCAL GOVERNMENTS, SCHOOL DISTRICTS, AND NON PROFIT AGENCIES

As per the New York State General Municipal Law, all political subdivisions of New York State are allowed to make purchases through the resulting contract(s). As per Rockland County Procurement Policy, Non Profit Agencies approved to participate in New York State's Contract Extension Program are authorized to make purchases through the resulting contract(s).

1. The County of Rockland shall make all contract award information available to other political subdivisions and non profit agencies through our website: [www.rcpurchasing.com](http://www.rcpurchasing.com)
2. Any other political subdivision or Rockland County non profit agency will issue purchase orders directly to vendors within the specified contract period referencing the County's contract and shall be liable for any payments due on such purchase orders; and shall accept sole responsibility for any payment due.
3. All purchases shall be subject to audit and inspection by the other political subdivisions and Rockland County non profit agencies for which the purchase was made.
4. No officer, board or agency of a county, town, village, or school district shall make any purchase through the County when bids have been received for such purchase by such officer, board or agency, unless such purchase may be made upon the same terms, conditions and specifications at a lower price through the County.
5. All Bidders shall be on notice that as a condition of the award of a County contract, the successful bidder shall accept the award of a similar contract with any other political subdivision in New York State and Rockland County non profit agencies authorized to use New York State's contracts, if called upon to do so. A listing of approved Rockland County non profit agencies is available on the Purchasing Division's website at [www.rcpurchasing.com](http://www.rcpurchasing.com). The County, however, will not be responsible for any debts incurred by the participants pursuant to this or any other agreement.
6. Necessary deviations from the County's specifications in the award of a participant contract, whether such deviations relate to quantities, or delivery points shall be resolved between the successful bidder and the other political subdivisions and Rockland County non profit agencies.

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## **SPECIFICATIONS**

### 1. SCOPE

- 1.1. The County of Rockland is seeking to purchase a chemical agent with the ability to liquefy hard, soap-like grease deposits in municipal sewer collection systems, and the ability to maintain said deposits in a liquid (flowable) state indefinitely. Primary user of this agent is the Rockland County Sewer District #1 (RCSD#1) and they are currently using JetPower II as manufactured by Duke Sales, Inc. Bidders shall submit unit pricing in accordance with the proposal pages for a chemical agent as Mfg. by Duke Sales, Inc. JetPower II or approved equal.

### 2. USAGE

- 2.1. Product will be applied either by manual (full-strength) application, or via appropriate dilution with 1500-gallon potable water and truck mounted high pressure sewer jet equipment Mfg. JetVac.
- 2.2. All quantities listed on the proposal pages are estimates. Orders will be placed on an as needed basis by Rockland County Agencies. The estimated annual usage is 600 gallons. It is estimated that 90% of the total annual usage is used with the potable water truck mounted high pressure sewer jet equipment specified above.
- 2.3. The JetPower II specifies a 1% solution per 1500 gallons of water. Therefore, 15 gallons of solution is required to be used in the Sewer Jet equipment specified.
- 2.4. Bidder must provide the % solution on the proposal page for the product offered. The award will be based on total cost to the County using the following formula:

2.4.1. **FORMULA – 1500 X % solution provided X unit price bid = Total Cost**

### 3. MANDATORY SUBMITTALS

- 3.1. Bidders must submit the following documentation with their bid, failure to comply with these requirements will deem your bid non-responsive:
- 3.1.1. Bidder must provide the % solution in accordance with the proposal page which will be used in the evaluation of the bid award.
- 3.1.2. A mixing and usage guide, providing detailed application instructions for dilution when used in sewer jet application, as well as worker safety precautionary statements. If dilution is not recommended, a statement thereto is required.
- 3.1.3. A Product label.
- 3.1.4. A Safety Data Sheet (SDS).

### 4. LIQUEFYING AGENT

- 4.1. The product specified herein, must contain a blend of essential surfactants to liquefy hard sewer grease, and other chemical agents to maintain said grease in a liquid state indefinitely. The chemical/physical characteristics of the product must be as follows:
- 4.1.1. The product must be equally effective in pump stations, wet wells, manholes, as well as sewer pipelines.
- 4.1.2. The Product must be a liquid, that is totally miscible in water, in order to form a complete emulsion when mixed with water.

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- 4.1.3. When mixed in a 1% solution with water, the product must change the color of the entire water solution from clear to white (or other distinct color) so as to provide evidence that it is evenly distributed in the water tank, and throughout the jet stream (see Manner of Application).
- 4.1.4. The product must have a boiling point higher than 212 degrees and a specific gravity greater than 1.0 and less than 1.05 (water = 1).

## 5. MANNER OF APPLICATION

- 5.1. The Product must be designed for application by Sewer Jet Trucks according to the following instructions:
  - 5.1.1. Application of the product requires no specialized equipment, or modification of the specified equipment.

## 6. PRODUCT SAFETY

- 6.1. When used as directed the product specified herein shall:
  - 6.1.1. NOT harm the Wastewater Treatment Plant(s).
  - 6.1.2. NOT harm the Owner's Hydraulic Sewer Cleaning Equipment.
    - 6.1.2.1. Must have a letter of approval for use in JetVac Equipment.
  - 6.1.3. NOT harm plant, animal, or marine life.

## 7. PACKAGING & DELIVERY

- 7.1. Product must be packaged in 5-gallon containers. RCSD#1 typically orders a pallet of 24 5-gallon containers for a total of 120 gallons; however, RCSD#1 reserves the right to order less than a pallet. The RCSD#1 typically places orders two (2) – three (3) times a year.
- 7.2. Delivery must be made to the Rockland County Sewer District #1 plant facility at 4 Rt. 340 Orangeburg, NY 10962 within 15 working days after receipt of order (ARO).

## 8. BRAND NAME

- 8.1. The use of a brand name is for the purpose of describing a standard of quality, performance and characteristics desired and is not intended to limit or restrict competition.

## 9. APPROVED EQUAL OR EQUIVALENT PRODUCTS

- 9.1. If proposing an equivalent liquefying agent, bidder shall submit an item-by-item listing and explanation of any differences between their product specifications and performance and the specified model.
- 9.2. If bidders submit or bid for equivalent or approved equal products, they must submit manufacturer's product description and specifications.
- 9.3. Alternative products must conform to this bid specification.
- 9.4. Product application procedures, qualities, characteristics, and relative safety (as verified via SDS and Label information) must be in strict compliance with the specifications described herein.
- 9.5. Bidders submitting an alternate product must demonstrate the offered product's successful use for a period of not less than 2 years, and with at least 5 municipal users which the RCSD#1 can verify. Failure to submit this documentation with the bid proposal may deem your bid non-responsive (see Certificate of Experience Form).
  - 9.5.1. At no additional charge, the bidder may be required to supply the offered product in a quantity to be used in the sewer jet equipment specified. If requested, product must be delivered to the RCSD#1 in

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Orangeburg, NY 10962, within 3 business days after receipt of request. The product WILL be used in determining the alternate product is equivalent and will meet the needs of RCSD#1.

- 9.6. Bidders submitting an alternate product must supply RCSD#1 with a letter of approval from JetVac approving the use of the submitted product in the specified equipment. This assures the RCSD#1 that the product submitted for use is safe for their equipment. Failure to submit this documentation with the bid will deem the bid as non-responsive.

**10. TERM OF CONTRACT**

- 10.1. The term of the contract specified herein will be for one year. The contract may be extended, with the mutual consent of the Owner, and the successful Supplier in one-year periods, up to a total of two (2) additional years.

**11. CONTRACT PRICE ADJUSTMENTS UPON RENEWAL**

- 11.1. The proposed pricing must remain firm through the first contract period with no price adjustments allowed. If the County exercises any of the option years of the contract, Contractors may submit a request for adjustment on the yearly anniversary date of the contract. Any request for price adjustment(s) must be submitted thirty (30) days in advance in writing to the Director of Purchasing. Any and all price adjustments will be limited to the percentage increase in the CPI Index – All Urban Consumers for the preceding 12 months. The County reserves the right to reject any request for price increase deemed excessive.

**12. GUARANTEE**

- 12.1. The successful Bidder must offer a 100% money-back guarantee, that the product supplied must, to the satisfaction of the RCSD#1, perform as follows:
- 12.1.1. The Product must leave the sewer line substantially free of grease.
- 12.1.2. That said grease will not re-coagulate at a downstream location.
- 12.1.3. The Product, as supplied conforms to this specification.
- 12.1.4. The Product has a shelf life of not less than 1 year.

**13. PRICING**

- 13.1. Unit Pricing must be submitted per gallon and include F.O.B. destination to Orangeburg, NY 10962.
- 13.1.1. Unit Pricing must be submitted in accordance with the proposal page based on a single order for pallet. Bidder must provide packaging quantity for pallet.
- 13.1.2. Unit Pricing must be submitted for less than pallet orders.

**14. AWARD**

- 14.1. This bid **WILL BE** awarded to the lowest responsible bidder meeting all the stated requirements **AND** with the lowest **Total Cost**. It will **NOT** be awarded based solely on unit cost per gallon.
- 14.2. The % Solution for product will be used to determine the Total Cost which will be used in evaluation to determine the lowest bidder. The JetPower II specifies a 1% solution per 1500 gallons of water. Therefore, 15 gallons of solution is required to be used in the Sewer Jet equipment specified.

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14.3. Bidder must provide the % solution on the proposal page for the product offered. The award will be based on total cost to the County using the following formula:

14.3.1. **FORMULA – 1500 X % solution provided X unit price bid = Total Cost**

14.3.2. If after award, should it be determined by RCSD#1 that the gallons of product required per 1500 gallons of water exceed that of the award, or it is determined the awarded product is not performing as specified, the County reserves the right to deem the award/product non-responsive and move to award to the next bidder meeting the stated requirements and providing the lowest total cost for the application.



1177-C Jefferson Rd. Warwick, RI 02286 607-425-7784

### **FUSION300 Standard Operating Procedures**

\*Start at 15 gallons FUSION300 per 1500 of FUSION300 per truckload. If product is working at this rate, you may be able to cut it to 10 gal per 1500.

\*Also, adjust the number of gallons per 1500 of water depending on the grease load. This would be in the areas that are heavy in fried food type, which are found in restaurants.

\*Use just enough PSI to move the hose along the sewer pipe, at the same time discharging the Fusion300. Wait 5-10 minutes for chemical to work, then increase PSI as hose is retracted.

\*The goal is to completely cover the interior of the pipe so as to attack grease as well as the slime layer.





## SECTION 1: IDENTITY **Fusion 300**

### SECTION 2: Hazardous Ingredient:

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture:

FLAMMABLE LIQUIDS – Category 3

SKIN SENSITISATION – Category 1

EYE IRRITATION – Category 2B

GHS Label Elements:

Signal Word: Warning

Hazard Statements: Flammable liquid and vapour

May cause an allergic skin reaction

Causes eye irritation



Substance/mixture: Mixture

Name	CAS#	% by weight	Exposure Limits
Orange Terpenes	5989-27-5	≤30	
Ethoxylated Alcohols	proprietary blend	≤20	
Methyl ester, soybean oil	67784-80-9	≤5	
Methyl Glycine Diacetic Acid,			
Trisodium salt.	164462-16-2	≤2.50	
Water	7732-18-5	to 100	

The chemical identity and exact percentage of the composition has been withheld as it is a trade secret.

**SECTION 4: Physical Hazards: None**

**SECTION 5: Health Hazards:** Signs & Symptoms: May cause irritation to skin & eyes. PEL & TLV are not established. Emergency First Aid Procedures: Rinse with water for at least 15 minutes. If irritation persists see a physician. Skin, wash with soap and water. Ingestion: Drink a lot of water.

**SECTION 6: Special Protective Equipment:** Rubber gloves not required unless user has sensitive skin.

**SECTION 7: Special Precautions & Spill/Leak Procedures:** Dilute with water. Dispose with your local or state regulations. Not harmful to the environment

**SECTION 8: Additional Information:** The oral and dermal properties are considered to be non-toxic & environmentally safe. This product contains no chronic health hazards.

The opinions expressed herein are based on the experience of the chief chemist for Fusion Environmental Solutions LLC. Since use of this information, the condition of use and these opinions are not within the control of Fusion Environmental Solutions LLC, it is the user's obligation to determine the conditions of the safe use of this product.

#### Contact Information

Name: Fusion Environmental Solutions, LLC  
Address: 1177-C Jefferson Blvd Warwick, RI 02888  
Phone: (401) 302-6822

# Safety Data Sheet

Conforms to HazCom 2012/United States

## Section 1: Chemical Product and Company Identification

Product name: Fusion 300

Alternate names: STC Fusion 300 Degreaser

Chemical Family: Not Available

Chemical Formula: Not Available

Manufacturer: Fusion Environmental Solutions, LLC

1643 Warwick Ave #105

Warwick, RI 02889

Contact: 401-302-6822

## Section 2: Hazards Identification

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture:

FLAMMABLE LIQUIDS – Category 3

SKIN SENSITISATION – Category 1

EYE IRRITATION – Category 2B

GHS Label Elements:

Signal Word: Warning

Hazard Statements: Flammable liquid and vapour

May cause an allergic skin reaction

Causes eye irritation

Precautionary Statements:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Keep container tightly closed. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye or face protection.

Response: In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

If on skin: Remove contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

Storage: Store in a well-ventilated place. Keep cool.

Hazards Not Otherwise Classified: None Known



## Section 3: Composition and Information on Ingredients

Substance/mixture: Mixture

Name	CAS#	% by weight	Exposure Limits
Orange Terpenes	5989-27-5	≤30	
Ethoxylated Alcohols	proprietary blend	≤20	
Methyl ester, soybean oil	67784-80-9	≤5	
Methyl Glycine Diacetic Acid, Trisodium salt.	164462-16-2	≤2.50	
Water	7732-18-5	to 100	

The chemical identity and exact percentage of the composition has been withheld as it is a trade secret.

#### **Section 4: First Aid Measures**

**General advice:** Move out of dangerous area. Do not leave the injured person unattended. Show this safety data sheet to the doctor in attendance.

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. If irritation persists get medical attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

**Skin Contact:** Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Remove victim to fresh air and keep at rest for comfortable breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Most important Symptoms/Effects, Acute and Delayed**

##### **Potential Acute Health Effects**

**Eye Contact:** Causes eye irritation

**Inhalation:** Exposure to decomposition products may cause a health hazard.

**Skin Contact:** May cause an allergic skin reaction. May cause mild irritation.

**Ingestion:** May be irritating to mouth, throat and stomach.

##### **Over Exposure Signs/Symptoms**

**Eye Contact:** Adverse symptoms may include the following:

Pain or irritation

Watering

Redness

**Inhalation:** No known significant effects or critical hazards

**Skin Contact:** Adverse symptoms may include the following:

Irritation

Redness

**Ingestion:** May be irritating to mouth, throat and stomach.

##### **Indication of Immediate Medical Attention and Special treatment Needed, if Necessary**

**Notes to Physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments:** No specific treatment

**Protection of First Aiders:** No action shall be taken involving any personal risk or without suitable training.

### **Section 5: Fire Fighting Measures**

#### **Extinguishing Media:**

**Suitable extinguishing media: Alcohol-resistant foam.**

**Carbon dioxide (CO<sub>2</sub>).**

**Dry chemical**

**Unsuitable extinguishing media: High Volume water jet.**

**Hazardous thermal decomposition products: Decomposition products may include following materials: carbon dioxide**

**carbon monoxide**

**smoke**

**Specific hazards during firefighting: No special measures are required.**

**Special protective actions for firefighters: No special measures are required.**

**Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode, if necessary.**

**Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.**

### **Section 6: Accidental Release Measures**

#### **Personal Precautions, Protective Equipment and Emergency Procedures**

**For non-emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.**

**For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".**

**Environmental precautions: No special measures are required.**

#### **Methods and Materials for Containment and Cleaning Up Spill:**

**Stop leak if without risk. Move containers from spill area. Approach release from upwind.**

**Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container or disposal according to local regulations (see Section 13).**

## **Section 7: Handling and Storage**

### **Precautions for Safe handling:**

**Protective Measures:** Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Take precautionary measures against static discharges. Keep in original container or an approved alternative made from compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

### **Conditions for Safe Storage, including any incompatibilities:**

Keep out of the reach of children. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Store upright to prevent leakage.

## **Section 8: Exposure Controls/Personal Protection**

### **Control Parameters**

**Occupational Exposure Limits:** None

**Appropriate Engineering Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental Exposure Controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### **Individual Protection Measures:**

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/Face Protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Tightly fitting safety goggles.

### **Skin Protection:**

**Hand Protection:** Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved should be approved by a specialist before handling this product.

**Other Skin Protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory Protection:** No respirator needed under normal conditions

**Section 9: Physical and Chemical Properties****Appearance**

Physical state: Liquid (Translucent Milky)

Odor: Citrus

Odor Threshold: Not available

pH: 9.50 (as is)

Boiling Point: 98 °C (208°F)

Vapor Density: 1 (air=1)

Vapor Pressure: water=1, 0.95

Flash Point: 57°C (135°F) closed cup

Flammability (solid, gas): Not available

Lower and upper Explosive (flammable) limits: No data available

Auto-ignition temperature: Not determined

Solubility: Easily soluble in the following materials: water

Viscosity: 25cPs

Relative Density: 0.99 (water =1)

**Section 10. Stability and Reactivity**

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability: Product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Reactive or incompatible with the following materials: Strong acids.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11: Toxicological Information**

**Information on toxicological effects**

**Acute toxicity:**

**Acute oral toxicity: Acute toxicity estimate: >5,000 mg/kg  
Method: Calculation method**

**Irritation/ Corrosion: May cause an allergic skin reaction. May cause mild irritation.**

**Sensitization: No data available**

**Carcinogenicity: No components are listed as carcinogens by IARC, ACGIH, OSHA or NTP above the threshold of 0.1%**

**Specific target Organ toxicity (single exposure): No data available**

**Specific target Organ toxicity (repeated exposure): No data available**

**Aspiration Hazard: No data available**

**Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.**

**Potential acute health effects**

**Eye contact: May cause eye irritation.**

**Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.**

**Skin contact: May cause mild irritation. May cause an allergic skin reaction**

**Ingestion: May be irritating to mouth, throat and stomach.**

**Symptoms related to the physical, chemical and toxicological characteristic**

**Eye contact: Adverse symptoms may include the following:**

**Pain or irritation**

**Watering**

**Redness**

**Inhalation: No known significant effects or critical hazards.**

**Skin contact: Adverse symptoms may include following:**

**Irritation**

**Redness**

**Ingestion: may be irritating to mouth, throat and stomach**

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects: No known significant effects or critical hazards.**

**Potential delayed effects: No known significant effects or critical hazards.**

**Long term exposure**

**Potential immediate effects: No known significant effects or critical hazards.**

**Potential delayed effects: No known significant effects or critical hazards.**

**Potential chronic health effects**

**General: No known significant effects or critical hazards.**

**Carcinogenicity: No data available.**

**Mutagenicity: No data available.**

**Teratogenicity: No data available.**

**Developmental effects: No data available.**

**Fertility effects: No data available.**

## **Section 12: Ecological Information**

### **Toxicity**

**Ecotoxicity: No data available**

**Persistence and Degradability: Readily biodegradable . Analogous: Assessment derived from products with similar chemical character.**

**Bio-accumulative Potential: No data available**

### **Mobility in soil**

**Soil/water partition coefficient ( $K_{oc}$ ): Not available**

**Other adverse effects: No known significant effects or critical hazards.**

**Other ecotoxicological advice:**

**Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.**

**The product has not been tested. The statements on ecotoxicology have been derived from the properties of individual components.**

## **Section 13: Disposal Considerations**

**Disposal Methods: The generation of waste should be avoided or minimized wherever possible.**

**Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration of landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in safe way.**

## **Section 14: Transport Information**

**Transport Regulation: 49 CFR (USA):**

**NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL**

**Transport Regulation: IMDG (Vessel):**

**UN 1993, Flammable liquid, n.o.s. , (D-Limonene), 3, III**

**Transport Regulation: IATA (Cargo Air)**

**UN 1993, Flammable liquid, n.o.s., (D-Limonene), 3,III**

**Transport Regulation: IATA ( Passenger Air)**

**UN 1993, Flammable liquid, n.o.s., (D-Limonene), 3,III**

**Transport Regulation: TDG (Canada)**

**NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL**



**Section 15: Regulatory Information**

**EPCRA – Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

**This material does not contain any components with CERCLA RQ.**

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

**This material does not contain any components with a section 304 EHS RQ.**

**U.S. Federal Regulations: United States Inventory (TSCA): On TSCA inventory**

**SARA 302**

**Composition/Information on Ingredients**

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

**SARA 313**

**Classification: 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.**

**International Lists**

**National Inventory**

**Australia (AICS): Not in compliance with the inventory.**

**Canada (DSL): This product contains one or several components that are not on the Canadian DSL or NDSL.**

**China (IECSC): Not in compliance with the inventory.**

**New Zealand (NZIoC): Not in compliance with the inventory.**

**Philippines (PICCS): Not in compliance with the inventory.**

**Section 16: Other Information**

**History**

**Date of issue mm/dd/yyyy: 10/18/2018**

**Date of previous issue: n/a**

**Version: 1**

**Revised Section(s): Not applicable**

**Prepared by: Fusion Environmental Solutions, LLC**

**Notice to reader: To the best of our knowledge the information contained herein is accurate, however neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.**

**Final determination of sustainability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**

**Disclaimer: As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, including but not limited to merchantability or fitness for particular use, is made concerning this product. The user assumes all risk of use or handling whether or not in accordance with any directions or suggestions of the supplier. Seller shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our products, from breach of any warranty or from any other cause, the exclusive remedy against the seller being to require replacement or repair of defective goods.**

**HMIS III:**

<b>Health</b>	<b>1</b>
<b>Fire</b>	<b>2</b>
<b>Physical hazard</b>	<b>0</b>