

<b>1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/SUPPLIER</b>	
<b>PRODUCT IDENTIFIER</b>	<b>CFR-62LA</b>
<i>Other Means of Identification:</i>	Friction Reducer
<i>Manufacturer's Name:</i>	<b>Clearpoint Chemicals, LLC</b>
<i>Manufacturer's Address:</i>	<b>18300 Scenic Hwy 98, Suite F Fairhope, AL 36532 USA Telephone: (251) 990-7311</b>
<i>24-HOUR Emergency Telephone Number:</i>	<b>Call CHEMTREC Day or Night (USA or Canada) <u>1-800-424-9300</u></b>
<i>Recommended Use:</i>	Reduction of pipe friction.
<i>Restrictions on Use:</i>	None.

<b>2. HAZARDS IDENTIFICATION</b>	
<b><u>CLASSIFICATION</u></b>	
<i>Physical Hazards:</i>	Not Classified.
<i>Health Hazards:</i>	Not Classified.
<i>Environmental Hazards:</i>	Not Classified.
<b><u>LABELING</u></b>	
<i>Signal Word:</i>	None.
<i>Hazard Statements:</i>	None.
<i>Symbols/Pictograms:</i>	

<b><u>PRECAUTIONARY STATEMENTS</u></b>			
<i><u>PREVENTION</u></i>	<i><u>RESPONSE</u></i>	<i><u>STORAGE</u></i>	<i><u>DISPOSAL</u></i>
None.	None.	None.	None.
<b><u>OTHER CLASSIFICATION AND LABELING INFORMATION</u></b>			
<i>Hazards Not Otherwise Classified:</i>	None.		
<i>Unknown Acute Toxicity:</i>	None.		
<i>Additional Classification(s):</i>	None.		

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

- 4. Severe Hazard
- 3. Serious Hazard
- 2. Moderate Hazard
- 1. Slight Hazard
- 0. Minimal Hazard

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>			
<b><u>COMPOSITION INFORMATION</u></b>			
<i><u>CHEMICAL COMPONENT</u></i>	<i><u>SYNONYMS</u></i>	<i><u>CAS REGISTRY NUMBER</u></i>	<i><u>CONCENTRATION</u></i>
Trade Secret	None	Proprietary	10 – 25%
Trade Secret	None	Proprietary	5 – 20%
Ammonium Acetate	None	631-61-8	<5%
<b><u>NOTES ON COMPOSITION INFORMATION:</u></b>			
None.			

<b>4. FIRST AID MEASURES</b>	
<i>Skin Contact:</i>	Immediately remove contaminated clothing. Wash with plenty of water, then with soap and water for 15 minutes. Seek medical attention if exposure causes more than minor discomfort. Wash contaminated clothing before reuse.
<i>Eye Contact:</i>	Immediately flush eyes with a continuous water stream for at least 20 minutes. Remove any contact lenses and open eyelids widely. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical attention if irritation persists.
<i>Inhalation:</i>	Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.
<i>Ingestion:</i>	In case of accidental overdose/over-ingestion, seek medical attention or contact a poison control center immediately. Do not induce vomiting. Rinse mouth thoroughly. Dilute by giving 1 or 2 glasses of milk or water. Nothing by mouth if unconscious. Seek medical attention.
<i>Most Important Symptoms/Effects:</i>	Causes skin irritation and serious eye damage.
<i>Indication of Immediate Medical Attention and Special Treatment:</i>	All treatments should be based on observed signs and symptoms.

<b>5. FIRE FIGHTING MEASURES</b>	
<i>Flash Point:</i>	No applicable information available.
<i>Flammable Limits:</i>	No applicable information available.
<i>Autoignition Temperature:</i>	No applicable information available.
<i>Explosion Data:</i>	No applicable information available.
<i>Suitable Extinguishing Media:</i>	Carbon dioxide (CO <sub>2</sub> ) or any dry chemical or foam.
<i>Special Protective Equipment and Precautions for Fire Fighters:</i>	Wear a self-contained breathing apparatus pressure demand (NIOSH approved or equivalent) and full protective gear. Move container from fire area if it can be done without risk. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

	chemical fire. Prevent fire-fighting water from entering the environment.
<i>Specific Hazards Arising from the Chemical or Mixture:</i>	Under fire temperatures, solution may evaporate and decompose to produce toxic fumes.
<i>Hazardous Combustion Products:</i>	No applicable information available.
<i>Other Information:</i>	Slippery when wet.

## 6. ACCIDENTAL RELEASE MEASURES

<i>Personal Precautions, Protective Equipment, and Emergency Procedures:</i>	<p>Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).</p> <p>Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.</p> <p>Evacuate unnecessary personnel.</p> <p>Ventilate area.</p>
<i>Methods and Materials for Containment and Clean Up:</i>	<p>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Do not flush with water. Spills of solution are extremely slippery so all residue must be removed promptly.</p>
<i>Other Instructions:</i>	For waste disposal see Section 13.

## 7. HANDLING AND STORAGE

<i>Precautions for Safe Handling and Storage:</i>	<p>Avoid contact with skin and eyes. When using, do not eat, drink or smoke.</p> <p>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</p> <p>Keep stored in a cool, dry, ventilated area.</p> <p>Do not allow to freeze.</p> <p>Store in tightly closed containers out of direct sunlight.</p> <p>Store away from incompatible materials.</p>
<i>Other Precautions and Information:</i>	None.

<b>8. EXPOSURE CONTROLS AND PERSONAL PROTECTION</b>	
<i>Eye/Face Protection:</i>	Chemical safety goggles meeting the specifications of ANSI Standard Z87.1 are to be worn whenever there is the possibility of contact with the eyes. Spectacle type safety glasses <u>do not</u> provide satisfactory protection. An eyewash fountain should be readily accessible. Wear plastic face shield in addition to safety goggles where there is a danger of splashing.
<i>Protective Gloves:</i>	Wear chemical resistant gloves appropriate to the conditions to prevent dermal exposure. Rinse and remove gloves immediately after use, and wash hands thoroughly with soap and water. Gloves should be removed and replaced immediately if there are any signs of degradation or breakthrough.
<i>Protective Clothing:</i>	Wear chemical resistant protective clothing and footwear impervious to the product for the duration of the anticipated exposure if there is a potential for skin contact. An emergency shower should be readily accessible. Discard any contaminated clothing.
<i>Respiratory Protection:</i>	Wear adequate respiratory protection in the case where there is a potential for inhalation exposure during use or handling operations. Respirators equipped with organic vapor cartridges are anticipated to provide adequate respiratory protection during short-term exposures to low vapor concentrations of the product. Workers should wear a supplied-air respirator or self-contained breathing apparatus any time exposure is above low levels or during extended exposure periods. Use NIOSH approved respiratory equipment. Respirators should be selected based on the form and concentration of the contaminant in the air and in accordance with OSHA (29 CFR 1910.134). Handle only in the presence of adequate ventilation.
<i>Engineering Controls:</i>	Good general ventilation should be sufficient to control low airborne levels of the product. If the product is present above low levels, local exhaust or other measures may be necessary to control worker exposure. Engineering controls may be necessary during heating operations where irritating vapors may evolve or be released.
<i>Air Monitoring:</i>	There is no air monitoring information available for this product.

<b>EXPOSURE LIMITS AND GUIDELINES</b>				
<u>COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NIOSH REL</u>	<u>OTHER</u>
Trade Secret (5-20%)	NE	200 mg/m <sup>3</sup> TWA – Non-Aerosol	NE	NE
<b>NOTES ON EXPOSURE LIMITS AND GUIDELINES:</b>				
NE = Not established.				

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<i>Appearance/Physical State:</i>	White to off-white liquid
<i>Odor:</i>	Slight hydrocarbon – oil-like odor
<i>Odor Threshold:</i>	No applicable information available
<i>pH:</i>	7.0 – 9.0
<i>Melting Point:</i>	No applicable information available
<i>Boiling Point:</i>	No applicable information available
<i>Flash Point:</i>	> 93°C (200°F)
<i>Evaporation Rate:</i>	No applicable information available
<i>Flammability:</i>	No applicable information available
<i>Flammability Limits:</i>	No applicable information available
<i>Vapor Pressure:</i>	No applicable information available
<i>Vapor Density:</i>	No applicable information available
<i>Relative Density/Specific Gravity:</i>	1.00 – 1.20
<i>Solubility in Water:</i>	Soluble ; solubility limited by viscosity
<i>Octanol/Water Partition Coefficient:</i>	No applicable information available
<i>Auto-ignition Temperature:</i>	No applicable information available

<i>Decomposition Temperature:</i>	No applicable information available
<i>Viscosity:</i>	Kinematic ~ 500 cSt @ 40°C
<i>Color (Gardner):</i>	No applicable information available
<i>Refractive Index:</i>	No applicable information available

## 10. STABILITY AND REACTIVITY

<i>Reactivity:</i>	Will not occur.
<i>Chemical Stability:</i>	Stable under normal conditions.
<i>Possibility of Hazardous Reactions:</i>	No known reactions.
<i>Conditions to Avoid:</i>	Avoid incompatible materials.
<i>Incompatible Materials:</i>	Oxidizing agents.
<i>Hazardous Decomposition Products:</i>	Carbon and Nitrogen Oxides.
<i>Hazardous Polymerization:</i>	This product will not undergo hazardous polymerization.
<i>Other Information:</i>	<u>See</u> Section 7 for further information.

## 11. TOXICOLOGICAL INFORMATION

<i>Routes of Exposure:</i>	Exposure to this product (including its vapors) may occur through the eyes, skin, ingestion, and inhalation.
<i>Acute Toxicological Data:</i>	Oral LD50: >5000 mg/kg – Rat Specimen Dermal LD50: >2000 mg/kg – Rabbit Specimen Inhalation: >5.2 mg/L (4 HRS) – Rat Specimen
<i>Eye Irritation Data:</i>	There are no eye irritation data on this product. Based on the data of the individual components, this product can cause serious eye irritation and/or damage.
<i>Skin Irritation/Sensitization/Absorption Data:</i>	There are no skin irritation data on this product. Based on the data of the individual components, this product can cause skin irritation.

	Absorption through the skin is not expected to occur. This product is not expected to cause skin sensitization.
<i>Subchronic Toxicity Data:</i>	There are no subchronic toxicity data on this product. Based on the data of the individual components, the subchronic toxicity of this product is expected to be low.
<i>Reproductive Toxicity Data:</i>	There are no reproductive toxicity data on this product. Based on the data of the individual components, this product is not expected to present a reproductive toxicity hazard.
<i>Teratogenicity (birth defects) Data:</i>	There are no teratogenicity data on this product. Based on the data of the individual components, this product is not expected to present a teratogenicity hazard.
<i>Mutagenicity Data:</i>	There are no mutagenicity data on this product. Based on the data of the individual components, this product is not expected to present a mutagenicity hazard.
<i>Chronic/Carcinogenicity Data:</i>	There are no chronic effects or carcinogenicity data on this product. Based on the data of the individual components, this product is not expected to present a chronic or carcinogenicity hazard.  <ul style="list-style-type: none"> <li>· NTP: Not listed</li> <li>· IARC: Not listed</li> <li>· OSHA: Not listed</li> </ul>
<i>Specific Target Organ Toxicity – Single Exposure</i>	No applicable information available.
<i>Specific Target Organ Toxicity – Repeated Exposure</i>	No applicable information available.
<i>Aspiration Hazard</i>	None.

## 12. ECOLOGICAL INFORMATION

<i>Ecotoxicity Data:</i>	<p><u>Trade Secret (10-25%)</u></p> <p>LC50 (96HR Flow Thru) = 45 mg/L – Pimephales promelas</p> <p>LC50 (96HR Static) = 2.4 mg/L – Oncorhynchus mykiss</p> <p>LC50 (96HR Static) = 2-5 mg/L – Lepomis macrochirus</p>
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	<u>Trade Secret (5-20%)</u> LC50 (96HR Semi-Static) = 2-5 mg/L – Oncorhynchus mykiss <u>Ammonium Acetate (&lt;5%)</u> LC50 (48HR) = 1.06 mg/L – Cyprinus carpio
<i>Persistence and Degradability:</i>	No applicable information available
<i>Bioaccumulative Potential:</i>	No applicable information available
<i>Mobility in Soil:</i>	This product is miscible with water. May spread in water systems.
<i>Other Adverse Effects:</i>	Harmful to aquatic life with long lasting effects.

### 13. DISPOSAL CONSIDERATIONS

<i>Waste Classification:</i>	Dispose as a solid waste in conformance with all federal, state, and local regulations. All recovered material must be packaged, labeled, transported, and disposed in conformance with applicable laws and regulations. It is the responsibility of the user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a solid or hazardous waste. Liquid material should be incinerated.
<i>U.S. EPA Waste Number:</i>	No applicable information available.
<i>Special Instructions:</i>	None.

### 14. TRANSPORT INFORMATION

<u>U.S. DOT</u>	
<i>UN Number:</i>	Not Regulated
<i>Hazard Class:</i>	-
<i>Packing Group:</i>	-
<i>Proper Shipping Name:</i>	-
<i>Label:</i>	-
<i>Marine Pollutant:</i>	-

<i>Additional Information/Remarks:</i>	None.
<b><u>IMDG</u></b>	
<i>UN Number:</i>	Not Regulated
<i>Hazard Class:</i>	-
<i>Packing Group:</i>	-
<i>Proper Shipping Name:</i>	-
<i>Label:</i>	-
<i>Marine Pollutant:</i>	-
<i>Additional Information/Remarks:</i>	None.
<b><u>ICAO/IATA</u></b>	
<i>UN Number:</i>	Not Regulated
<i>Hazard Class:</i>	-
<i>Packing Group:</i>	-
<i>Proper Shipping Name:</i>	-
<i>Label:</i>	-
<i>Marine Pollutant:</i>	-
<i>Additional Information/Remarks:</i>	None.

<b>15. REGULATORY INFORMATION</b>	
<i>TSCA Inventory Status:</i>	<u>All intentional substances contained in this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substance Inventory. This product contains no substances specifically regulated under TSCA.</u>
<i>OSHA:</i>	This product is not considered to be hazardous under the OSHA Hazard Communication Standard.
<i>Waste Classification:</i>	Dispose as a solid waste in conformance with all federal, state, and local regulations. All recovered material must be packaged, labeled,

	transported, and disposed in conformance with applicable laws and regulations. It is the responsibility of the user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a solid or hazardous waste.			
<i>EPCRA/SARA III:</i>	<p><b>SARA 313</b> Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.</p> <table border="1"> <tr> <td>Ammonium acetate 631-61-8</td> <td>&lt; 5%</td> <td>1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)</td> </tr> </table>	Ammonium acetate 631-61-8	< 5%	1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)
Ammonium acetate 631-61-8	< 5%	1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)		
<i>California Proposition 65:</i>	This product contains no chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.			

<b>16. OTHER INFORMATION</b>	
<i>Label Text:</i>	<u>See</u> Section 2 and product labeling.
<i>Disclaimer:</i>	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 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.
<i>Previous SDS Version Date:</i>	January 10, 2018