**SECTION 1: IDENTIFICATION**

**Product Identifier**
- **Product Form:** Mixture
- **Product Name:** Liquid Ammonium Sulfate

**Intended Use of the Product**
- Municipal and industrial water and wastewater treatment for disinfection as a source of ammonia in chloramination. Disinfection byproduct control.

**Name, Address, and Telephone of the Responsible Party**
- **Manufacturer:** CHEMTRADE LOGISTICS INC.
  155 Gordon Baker Road
  Suite 300
  Toronto, Ontario M2H 3N5
  For SDS Info: (416) 496-5856
  www.chemtradelogistics.com

**Emergency Telephone Number**
- **Emergency Number:**
  - **Canada:** CANUTEC +1-613-996-6666 / **US:** CHEMTREC +1-800-424-9300
  - **INTERNATIONAL:** +1-703-741-5970
  - Chemtrade Emergency Contact: (866) 416-4404

*For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night*

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture**
- **GHS Classification**
  - Aquatic Acute 2
  - H401

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

**Label Elements**
- **GHS Labeling**
  - **Hazard Statements:** H401 - Toxic to aquatic life.
  - **Precautionary Statements:** P273 - Avoid release to the environment.
  - P501 - Dispose of contents/container in accordance with local, regional, national, provincial, territorial and international regulations.

**Other Hazards**
- Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

**Unknown acute toxicity**
- No data available

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixture**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%*</th>
<th>GHS Ingredient Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>39.9 – 69.0</td>
<td>Not classified</td>
</tr>
<tr>
<td>Ammonium sulfate</td>
<td>(CAS No) 7783-20-2</td>
<td>30 - 60</td>
<td>Aquatic Acute 2, H401</td>
</tr>
<tr>
<td>Citric acid</td>
<td>(CAS No) 77-92-9</td>
<td>0.1 to 1</td>
<td>Eye Irrit. 2A, H319 Comb. Dust</td>
</tr>
</tbody>
</table>

*Full text of H-phrases: see section 16*

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

*The actual concentration of the ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200.*

**SECTION 4: FIRST AID MEASURES**

**Description of First-aid Measures**
**Liquid Ammonium Sulfate**
**Safety Data Sheet**

---

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

---

**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Prolonged exposure may cause skin irritation.

**Eye Contact:** May cause slight irritation to eyes.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

---

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** At temperatures of 235 °C (455 °F) ammonia can be emitted. Sulfur oxides.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

**Reference to Other Sections**

Refer to Section 9 for flammability properties.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

**For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

**Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

**Methods and Materials for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.
Liquid Ammonium Sulfate
Safety Data Sheet

Reference to Other Sections
See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Additional Hazards When Processed: Handle in accordance with standard industrial practices, and ensure appropriate ventilation. Avoid all contact with skin, eyes, clothing. Do not release into the environment.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials.

Incompatible Materials: Alkalies, alkalizing substances, nitrites and alkaline substances, oxidizers.

Specific End Use(s)
Municipal and industrial water and wastewater treatment for disinfection as a source of ammonia in chloramination. Disinfection byproduct control.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Exposure Controls
Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.


Materials for Protective Clothing: Chemically resistant materials and fabrics
Hand Protection: Wear protective gloves.
Eye Protection: Chemical safety goggles.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear, faint yellow to amber colored
Odor: Odorless
Odor Threshold: Not available
pH: 3 - 7
Evaporation Rate: Not available
Melting Point: Not applicable
Freezing Point: -12 °C (10.4 °F)
Boiling Point: Not available
Flash Point: Not available
### Liquid Ammonium Sulfate

#### Safety Data Sheet


#### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Alkalies, alkalizing substances, nitrites and alkaline substances, oxidizers.

**Hazardous Decomposition Products:** None expected under normal conditions of use.

#### SECTION 11: TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects - Product**

- **Acute Toxicity (Oral):** Not classified
- **Acute Toxicity (Dermal):** Not classified
- **Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

- **Skin Corrosion/Irritation:** Not classified
- **pH:** 3 - 7
- **Eye Damage/Irritation:** Not classified
- **pH:** 3 - 7
- **Respiratory or Skin Sensitization:** Not classified
- **Germ Cell Mutagenicity:** Not classified
- **Carcinogenicity:** Not classified
- **Specific Target Organ Toxicity (Repeated Exposure):** Not classified
- **Reproductive Toxicity:** Not classified
- **Specific Target Organ Toxicity (Single Exposure):** Not classified
- **Aspiration Hazard:** Not classified

**Symptoms/Effects After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Effects After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Effects After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Effects After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

**Information on Toxicological Effects - Ingredient(s)**

**LD50 and LC50 Data:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LC50 Oral Rat</th>
<th>LD50 Dermal Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>&gt; 2000 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>5400 mg/kg</td>
<td></td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

#### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**

**Ecology - General:** Toxic to aquatic life.
Liquid Ammonium Sulfate
Safety Data Sheet

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>LC50 Fish 1</th>
<th>EC50 Daphnia 1</th>
<th>LC50 Fish 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])</td>
<td>14 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
<td>32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 Fish 1</td>
<td>1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and Degradability**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Persistence and Degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>Not established.</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>Readily biodegradable in water.</td>
</tr>
</tbody>
</table>

**Bioaccumulative Potential**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Bioaccumulative Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>Not established.</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Log Pow**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Log Pow (at 25 °C)</th>
<th>Log Pow (at 20 °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>-5.1</td>
<td>-1.72</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mobility in Soil**

Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**SECTION 14: TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

Not regulated for transport according to: US DOT, IMDG, IATA, and Canada’s TDG.

**SECTION 15: REGULATORY INFORMATION**

**US Federal Regulations**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>CERCLA RQ</th>
<th>EPCRA 304 RQ</th>
<th>SARA 302 TPQ</th>
<th>SARA 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>Not present</td>
<td>Not present</td>
<td>Not present</td>
<td>No</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>Not present</td>
<td>Not present</td>
<td>Not present</td>
<td>No</td>
</tr>
</tbody>
</table>

**US TSCA Flags**

Not present

**US State Regulations**

**California Proposition 65**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**State Right-To-Know Lists**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
</tr>
</tbody>
</table>
Liquid Ammonium Sulfate
Safety Data Sheet

<table>
<thead>
<tr>
<th>U.S. - Massachusetts - Right To Know List - Yes</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List - No</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List - Yes</th>
</tr>
</thead>
</table>

**Citric acid (77-92-9)**

<table>
<thead>
<tr>
<th>U.S. - Massachusetts - Right To Know List - No</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List - No</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - No</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List - No</th>
</tr>
</thead>
</table>

**Canadian Regulations**

**Ammonium sulfate (7783-20-2)**

- Listed on the Canadian DSL (Domestic Substances List)
- Not listed on the Canadian NDSL (Non-Domestic Substances List)

**Citric acid (77-92-9)**

- Listed on the Canadian DSL (Domestic Substances List)
- Not listed on the Canadian NDSL (Non-Domestic Substances List)

**International Inventories/Lists**

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Australia AICS</th>
<th>Turkey CICR</th>
<th>Korea ECL</th>
<th>EU EINECS</th>
<th>EU ELINCS</th>
<th>EU SVHC</th>
<th>EU NLP</th>
<th>Mexico INSQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Chemical Name (CAS No.)</td>
<td>China IECSC</td>
<td>Japan ENCS</td>
<td>Japan ISHL</td>
<td>Japan PDSCL</td>
<td>Japan PRTR</td>
<td>Philippines PICCS</td>
<td>New Zealand NZIOC</td>
<td>US TSCA</td>
</tr>
<tr>
<td>Ammonium sulfate (7783-20-2)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Revision Date** : 05/07/2018

**Revision Summary**

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Date Changed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HPR trade secret statement</td>
<td>05/07/2018</td>
</tr>
<tr>
<td>16</td>
<td>NFPA HMIR information</td>
<td>05/07/2018</td>
</tr>
</tbody>
</table>

**Other Information**

- This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations (HPR).

**GHS Full Text Phrases:**

- **Aquatic Acute 2** : Hazardous to the aquatic environment - Acute Hazard Category 2
- **Comb. Dust** : Combustible Dust
- **Eye Irrit. 2A** : Serious eye damage/eye irritation Category 2A
- **H319** : Causes serious eye irritation
- **H401** : Toxic to aquatic life

**NFPA 704**

**NFPA Health Hazard** : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

**NFPA Fire Hazard** : 1 - Must be preheated before ignition can occur.
Liquid Ammonium Sulfate
Safety Data Sheet

NFPA Reactivity Hazard: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS Rating
Health: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability: 1 Slight Hazard
Physical: 0 Minimal Hazard
PPE: See Section 8

Abreviations and Acronyms
AICS – Australian Inventory of Chemical Substances
ACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
BEI - Biological Exposure Indices (BEI)
CAS No. - Chemical Abstracts Service number
CERCLA RQ - Comprehensive Environmental Response, Compensation, and Liability Act
EC50 - Median effective concentration
EI R 49 – Transport of Dangerous Goods
ECS0 - Median effective concentration
ECL - Korea Existing Chemicals List
EINECS - European Inventory of Existing Commercial Chemical Substances
ELINCS - European List of Notified Chemical Substances
EmS - IMDG Emergency Schedule 4 Fire & Spillage
ENCS - Japanese Existing and New Chemical Substances
EPA – Environmental Protection Agency
EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know Act – Reportable Quantity
ERAP Index – Emergency Response Assistance Plan Quantity Limit
ErCSO - ESO in Terms of Reduction Growth Rate
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)
ERG No. - Emergency Response Guide Number
HCCL - Hazard Communication Carcinogen List
HMIS – Hazardous Materials Information System
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association – Dangerous Goods Regulations
IDLH - Immediately Dangerous to Life or Health
IECSC - Inventory of Existing Chemical Substances Produced or Imported in China
IMDG - International Maritime Dangerous Goods Code
INSQ - Mexican National Inventory of Chemical Substances
ISHL - Japan Industrial Safety and Health Law
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-observed-effect Concentration
Log Pow - Octanol/water Partition Coefficient
NIOSH - National Institute for Occupational Safety and Health
NLP - Europe No Longer Polymers List
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NZIOC - New Zealand Inventory of Chemicals
OEL - Occupational Exposure Limits
OSHA – Occupational Safety and Health Administration
PEL - Permissible Exposure Limits
PICCS - Philippine Inventory of Chemicals and Chemical Substances
PDSCL - Japan Poisonous and Deleterious Substances Control Law
PRTR - Japan Pollutant Release and Transfer Register
REL - Recommended Exposure Limit
SADT - Self Accelerating Decomposition Temperature
SARA 302 - Section 302, 40 CFR Part 355
SARA 303 - Section 313, 40 CFR Part 372
SARA 304 RQ – SARA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know Act – Reportable Quantity
SARA Superfund Amendments and Reauthorization Act
SARA 311/312 - Sections 311 and 312, 40 CFR Part 370
SARA 312 - Seite 313, 40 CFR Part 372
SARL - Specificely Regulated Carcinogen List
STEL - Short Term Exposure Limit
SVHC – European Candidate List of Substance of Very High Concern
TDG – Transport Canada Transport of Dangerous Goods Regulations
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPQ - Threshold Planning Quantity
TSCA - United States Toxic Substances Control Act
TWA - Time Weighted Average
WEEL - Workplace Environmental Exposure Levels

Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA’S “Right to Know” (29 CFR 1910.1200) and Canada’s WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.

Chemtrade NA GHS SDS 2015
Liquid Ammonium Sulfate
Safety Data Sheet