SECTION 1: Identification

Product identifier: Ally
Other means of identification: Sanitizer
SDS number: 168
Recommended use: Sanitizer
Recommended restrictions: Not for personal care

Manufacturer/Importer/Supplier/Distributor information
- Company name: U.N.X. Incorporated
- Address: 707 Arlington Blvd
  Greenville, NC 27858
- Telephone:
  Office hour (Mon-Fri)
  8:00a.m. – 4:00p.m. (Eastern Time)
  OFFICE NUMBER: 252-756-8616
- Contact Person: Jamie Singleton
- E-mail: unx@unxinc.com
- Emergency phone number: CHEMTEL (800) 255-3924 (24 HOURS)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture:

Physical hazards
Flammable liquids Category 3

Health hazards
Acute toxicity; Oral: Category 4
Acute toxicity; Inhalation: Category 2
Skin corrosion/irritation: Category 1C
Serious eye damage/eye irritation: Category 1
Specific target organ toxicity,
Single exposure: Category 2

Environmental hazards
Hazardous to the aquatic environment, Acute: Category 1
Hazardous to the aquatic environment, Long-term hazard: Category 1

Label elements:

Signal word: Danger
Hazard statements
H226  Flammable liquid and vapor.
H301  Toxic if swallowed.
H314  Causes severe skin burns and eye damage.
H318  Causes serious eye damage.
H330  Fatal if inhaled.
H371  May cause damage to organs.
H400  Very toxic to aquatic life.
H410  Very toxic to aquatic life with long lasting effects.

Precautionary statements
Prevention
P101  If medical advice is needed, have product container or label at hand.
P102  Keep out of reach of children.
P103  Read label before use.
P210  Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233  Keep container tightly closed.
P240  Ground/bond container and receiving equipment.
P241  Use explosion-proof electrical/ventilating/lighting/…/equipment.
P242  Use only non-sparking tools.
P243  Take precautionary measures against static discharge.
P260  Do not breathe mist or vapor.
P264  Wash hands, arms, face and exposed skin thoroughly after handling.
P270  Do not eat, drink or smoke when using this products.
P271  Use only outdoors or in a well-ventilated area.
P273  Avoid release to the environment.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P284  [In case of inadequate ventilation] wear respiratory protection.

Response:
P301+330+331  IF SWALLOWED: Immediately a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
P303+361+353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364  Take off contaminated clothing and wash it before reuse.

Storage:
P403+223  Store in a well-ventilated place. Keep container tightly closed.
P403+235  Store in a well-ventilated place. Keep cool.
P405  Store locked up.

Disposal:
P501  Dispose of contents/container in accordance with local/ regional/ national/ international Regulations.

Hazard(s) not otherwise classified (HNOC)  None known.
SECTION 3: Composition/information on ingredients

Substance/Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS Number</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>65-80</td>
</tr>
<tr>
<td>Alkyl dimethyl benzyl ammonium chloride (C12-18)</td>
<td>68391-01-5</td>
<td>5-15</td>
</tr>
<tr>
<td>Alkyl dimethyl ethylbenzyl ammonium chloride (68% C12, 32% C14)</td>
<td>85409-23-0</td>
<td>5-15</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>0-5</td>
</tr>
</tbody>
</table>

SECTION 4: First-aid measures

Description of first aid measures

General advice: Remove victims from the danger zone without endangering your own safety. Remove contaminated clothing (including underwear and shoes) immediately.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed:

Notes to physician: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: Irritation of nose, throat and airway.

Ingestion: May cause nausea and/or vomiting. Irritation of the mouth, throat, esophagus and gastrointestinal tract.

Skin contact/Skin irritation: Redness or rash may occur.

Eye contact: Causes irritation and burns of the eyes. Possible corneal damage. May cause conjunctivitis Lachrymation.

Indication of immediate medical attention and special treatment needed, if necessary:

Cases of eye contact and ingestion should be treated immediately. Have facilities in place to wash skin and eyes in case of exposure.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Water fog, foam, dry chemical powder, or carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use water jet as this can spread the fire. Do not use carbon dioxide in enclosed spaces with insufficient ventilation.
SECTION 5: Fire-fighting measures (continued)

Specific hazards arising from the chemical: Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Product containers can melt in the heat of a fire. Packaging materials will be combustible and provide fuel for the fire. In the event of fire and/or explosion do not breathe fumes.

Special protective equipment and precautions for fire-fighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. During fire-fighting respirator with independent air-supply and airtight garment is required. Fight fire in early stages if safe to do so. Containers at risk of fire should be cooled with water and, if possible removed from the danger area. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate area of leak or spill. Ensure adequate ventilation/exhaust extraction. Put on protective equipment (see Section 8). Have emergency procedures in place for treating spillages, evacuating the area and informing the emergency services if necessary. Restrict access to the area until the spillage is treated, if large amounts of vapors are produced that will be hazardous to others, evacuate the area. When any other effects of spillages will affect the safety of others the area should be evacuated. Avoid ingestion, inhalation of vapors and contact with skin and eyes. Non-emergency personnel should be kept away from the area of spillage.

Environment precautions: Do not flush into surface water or sanitary sewers system. Avoid unauthorized discharge to the environment. Clean up any spillages immediately; prevent material from spreading and entering drains or sewage systems. Large spillages or uncontrolled discharge to water systems must be alerted to the Environmental Agency or other regulatory body. If spillages to land cannot be treated safely or if contamination will occur the Environment Agency must be alerted immediately. If the product has entered a foul drain or sewage system in significant amounts to cause a hazard then the local water treatment company must be informed.

Methods and materials for containment and cleaning up: Contain and recover liquid when possible. Small spillages should be absorbed with an inert, non-combustible absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Small quantities can be wiped up with absorbent material (e.g. cloth, fleece.) Fit drain covers where they are available if the spillage is likely to enter the drainage system. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Ventilate area and allow drying before allowing access. Wash thoroughly after dealing with a spillage.

Reference to other sections: Refer to sections 8 and 13 for additional information.
SECTION 7: Handling and storage

**Precautions for safe handling:** Keep in a tightly closed container and protect from physical damage. Store in a cool, dry, and ventilated area. Keep away from sources of heat, moisture, incompatibilities, and away from direct sunlight. Do not mix with incompatible substances or mixtures. Avoid spilling the product. Do not wash out container and use it for other purposes. Avoid ingestion of the product, inhalation of any vapors/mists when produced and contact with skin and eyes. Do not eat, drink or smoke when handling. Wash at the end of each work shift, before eating, drinking, smoking and using the toilet. Remove contaminated clothing/footwear/equipment before entering eating areas or places that would expose others to the product. Do not use in areas close to drainage systems unless measures are in place to prevent access of product. Ensure emergency procedures are in place to treat spillages and cope with other situations such as evacuation. Provide eye washing and skin washing facilities, when handling large amounts a safety shower is recommended. Observe all warnings and precautions listed for the product.

**Conditions for safe storage, including any incompatibilities:** Store in closed original container at temperatures between 40°F and 80°F. If the product is transferred to another container, this should be made of a compatible material to the original container. Store away from heat, direct sunlight and moisture. Store in a stable situation to avoid spillages. It is advisable to store in a bunded area or use other protective measures such as a sump pallet or storage tray.

SECTION 8: Exposure control/personal protection

**Control Parameters**

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>PEL</td>
<td>1,000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1,900 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>STEL</td>
<td>1,000 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1,900 mg/m³</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls:**

**Ventilation System:**
A system of local and/or general exhaust is recommended to keep employee exposures below the defined exposure limit requirements or guidelines. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition for details.
SECTION 8: Exposure control/personal protection (continued)

Individual protection measures, such as personal protective equipment (PPE)

**Eye Protection:** Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Hand protection:** Wear protective gloves. Butyl rubber, rubber (natural, latex), nitrile, polyvinyl chloride (PVC). Be aware that latex gloves can produce an allergic reaction in sensitive individuals. Gloves should have a breakthrough time sufficient for the amount of handling but allow dexterity for safe movement and handling. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Gloves showing signs of degradation should be changed to avoid skin contamination. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. When removing used gloves apply proper technique by avoiding skin contact with the outer surface. When packages of the product are being handled during storage or transport it is advisable to wear protective gloves to prevent damage to the skin.

**Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded, a full face piece respirator with high efficiency dust/mist filter may be worn up to 50 times the exposure limit. Wear suitable respiratory protection when vapors or mists are produced if the Workplace Exposure Limit is exceeded and there is insufficient ventilation or extraction. For emergencies or instances where the exposure levels are not known, use a full face piece positive-pressure, air-supplied respirator. Respirator must be fitted with a cartridge suitable for the chemical of concern. Consult with the supplier as to the compatibility of the equipment with the chemical of concern. CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use air supplied system.

**Thermal Hazards:** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations:** Wash hands, change out of clothes as soon as possible. Wash Clothes. Shower or bathe as soon as possible.

**Other protective measures:** Have an eye bath and safety shower close by.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild Odor</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7 ± 0.5</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability of explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure (mm Hg)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density (Air=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
</tbody>
</table>
SECTION 9: Physical and chemical properties (continued)

Solubility(ies): Excellent in warm water
Partition coefficient (n-octanol/water): No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, dynamic: 25

Other Information: This product contains no phosphates.

SECTION 10: Stability and reactivity

Reactivity and/or chemical stability: No specific reactivity hazards associated with this product. Product is stable under normal conditions of use, storage and transport.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Avoid heat, direct sunlight, open flames, and ignition sources. Avoid storage with incompatible materials. Avoid storage in freezing conditions. Avoid storage near to unprotected drainage systems. It is advisable to store the product within some form of containment to prevent spillages reaching drainage systems. Do not allow the storage container to be left exposed to the atmosphere. Avoid storage in an unstable manner or in a situation that would result in exposure to the product.

Incompatible Materials: Strong oxidizing agents and anionic surfactants.

Hazardous Decomposition Products: Upon decomposition this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low weight molecular hydrocarbons.

SECTION 11: Toxicological information

Acute toxicity: Toxicological testing has not been conducted with this material. The toxicology information listed below is based on the components of this material.

Category 4- Oral Harmful if swallowed. Category 2- Inhalation Fatal if inhaled.

<table>
<thead>
<tr>
<th></th>
<th>Oral LD$_{50}$</th>
<th>Inhalation LC$_{50}$</th>
<th>Dermal LD$_{50}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture of ADBAC/ADEBAC* – ATE (Acute Toxicity Estimate)</td>
<td>344 mg/kg (Rat)</td>
<td>0.054 – 0.51 mg/L</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
</tr>
</tbody>
</table>

*Alkyl dimethyl benzyl ammonium chlorides / Alkyl dimethyl ethylbenzyl ammonium chlorides

Ethanol

A3 Confirmed animal carcinogen with unknown relevance to humans.

Skin Corrosion/ irritation: Category 1: Causes severe skin burns and eye damage.

Serious eye damage/Irritation: Category 1: Causes serious eye damage.
SECTION 11: Toxicological information (continued)

Respiratory sensitization: No information available.

Skin sensitization: This mixture is not expected to cause skin sensitization.

Germ cell mutagenicity: Classification not possible.

Carcinogenicity: No product components are considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity - Single Exposure: May cause damage to organs.

Aspiration hazard: Not applicable.

SECTION 12: Ecological information

Toxicity: Do not allow to escape into waterways, wastewater or soil. Ecotoxicological studies of the product are not available. Please find below the data available to us from raw materials:

Aquatic ecotoxicity
  Acute: Category 1: Very toxic to aquatic life
  Chronic: Category 1: Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Mixture of ADBAC/ADEBAC*</th>
<th>EC₅₀ Algae 0.063 mg/L 96 h</th>
<th>LC₅₀ Daphnia 0.0058 – 0.016 mg/L 48 h</th>
<th>LC₅₀ Fish 0.86 ppm 96 h</th>
</tr>
</thead>
</table>

*Alkyl dimethyl benzyl ammonium chlorides / Alkyl dimethyl ethylbenzyl ammonium chlorides

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: No data available for this product.

Mobility in soil: Not data available for this product.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

General information
Do not allow unauthorized disposal to the environment. If operators are exposed to vapors during the disposal process then suitable respiratory protection should be worn. All other personal protective equipment as described in section 8 should be worn.
SECTION 13: Disposal considerations (continued)

Disposal methods:
Avoid unauthorized disposal. Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with federal, state/provincial and local laws and regulations. In case of spill, dike, collect and contact local authorities about disposal.

SECTION 14: Transport information

UN Number: Not available
UN Proper Shipping Name: Not applicable
Transport hazard class(es):
   DOT Hazard Class: Not available
   DOT Subsidiary Hazard Class: Not available
Packing group, if available: Not available
Environmental Hazards: No
Special precautions for user: Not DOT regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Unless otherwise noted, no components are SARA TITLE 3 SECTION 313 40 CFR listed materials. The ingredients of this product are listed on the TSCA inventory.

US federal regulations: This product is U.S. EPA registered pesticide. This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
   Immediate Hazard – Yes
   Delayed Hazard – No
   Fire Hazard – Yes
   Pressure Hazard – No
   Reactivity Hazard – No

SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting) Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.
Safe Drinking Water Act (SDWA) Not regulated.
SECTION 15: Regulatory information (continued)

The following components appear on one or more of the following state hazardous substance lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information including date of preparation or last revision

<table>
<thead>
<tr>
<th>Chemical State: Liquid</th>
<th>Issue Date: 5-26-2015</th>
<th>2 Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Type: Mixture</td>
<td>Revision Date: -</td>
<td>2 Flammability</td>
</tr>
<tr>
<td></td>
<td>Version #: 01</td>
<td>0 Physical Hazard</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C Personal Protection</td>
</tr>
</tbody>
</table>

To the best of our knowledge, the information contained herein is accurate. However, neither U.N.X. Incorporated nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used within caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.