

# SAFETY DATA SHEET



This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2012) and equivalent state Standards. It has also been developed in accordance with the United Nations Globally Harmonized System of Classification of Chemicals (GHS) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Refer to Section 16 of this document for the definition of terms and abbreviations.

## SECTION 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER:

- ITEM NUMBER: 870114, 88GEN206855GL
- PRODUCT NAME: **Limelite Lime & Scale Remover**  
GL: 870114  
55 GL: 88GEN206855GL

### 1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE OR USES ADVISED AGAINST

- IDENTIFIED USE: Scale and chemical deposit remover.
- IDENTIFIED USERS: For sale to, use and storage by service persons only.

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- MANUFACTURER/  
SUPPLIER: **WAXIE Sanitary Supply**
- ADDRESS: 9353 Waxie Way; San Diego, CA 92123-1036
- BUSINESS PHONE: 1-800-995-4466
- EMERGENCY PHONE: 1-800-255-3924 (CHEMTEL; 24 hours)

### 1.4 OTHER PERTINENT INFORMATION

- This product is intended to be used only after dilution. The relevant hazard and safety data sheet are specified for both the **Product as SOLD** and **Product at USE DILUTION**, where appropriate.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

OSHA/HCS Status

**Product as SOLD**

Classification of the Substance or Mixture

Corrosive to Metals (Category 1)  
Skin Corrosion/Irritation (Category 1B)

**Product at USE DILUTION (< 10%)**

Skin corrosion (Category 2); Serious eye damage (Category 2A)

### 2.2 LABEL ELEMENTS:

ELEMENT

Hazard Pictograms

**Product as SOLD**



Signal Word

Hazard Statements

DANGER

Causes severe skin burns and eye damage.  
May be corrosive to metals

**Product at USE DILUTION (<10%)**



WARNING.

Causes skin and serious eye irritation.

## SECTION 2: HAZARDS IDENTIFICATION (Continued)

### 2.2 LABEL ELEMENTS (Continued):

| ELEMENT                  | Product as SOLD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Product at USE DILUTION (<10%)                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary Statements |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Prevention               | Keep out of reach of children.<br>Do not breathe mists.<br>Wash thoroughly after handling.<br>Do not eat, drink or smoke when using this product.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>Keep only in original container.                                                                                                                                                                                                                                                        | Keep out of reach of children.<br>Wash hands thoroughly after use.<br>Wear eye protection/face protection/protective clothing/protective gloves.                                                                                                                                                                                                                                                                                          |
| Response                 | IF SWALLOWED: Rinse mouth. Do not induce vomiting.<br>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.<br>Immediately call a POISON CENTER. Take off contaminated clothes and wash it before reuse.<br>Absorb spillage to prevent material damage. | IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.<br>IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, see a physician.<br>IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical advice/attention.<br>Take off contaminated clothing and wash it before reuse. |
| Storage                  | Store in corrosive resistant container.<br>Store in well-ventilated place.<br>Keep container tightly closed.                                                                                                                                                                                                                                                                                                                                                                                                               | Not established; follow guidelines in section 7.                                                                                                                                                                                                                                                                                                                                                                                          |
| Disposal                 | Dispose of container in accordance with local/regional/national/international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                 | Dispose of container in accordance with local/regional/national/international regulations.                                                                                                                                                                                                                                                                                                                                                |

### 2.3 OTHER PERTINENT DATA ON CHEMICAL AND PHYSICAL HAZARDS:

- May cause severe irritation of the respiratory tract if mists/sprays are inhaled. Ingestion of large quantities may cause irritation, ulceration, nausea, vomiting and can be fatal
- Due to the potential corrosive nature of the **Product as Sold**, additional personal protection (e.g., rubber apron) should be worn when in the process of diluting product.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCES/MIXTURES

| COMPONENT                                                                                                                                                                                 | CAS NUMBER | GHS HAZARD CLASSIFICATION FOR COMPONENT | % (w/w)                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------|--------------------------|
| Phosphoric Acid                                                                                                                                                                           | 7664-38-2  | Skin Corrosion (1B)                     | Proprietary <sup>1</sup> |
| Water and other components less than 1% in concentration within this solution. The remaining components of this product are not classified as hazardous in their existing concentrations. |            |                                         | Balance                  |

## SECTION 4: FIRST AID MEASURES

<sup>1</sup> The exact percentage of composition has been withheld as a trade secret. All relevant physical and health hazards have been declared, in accordance with regulatory requirements.

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

| AREA EXPOSED          | <u>Product as SOLD</u>                                                                                                                                           | <u>Product at USE DILUTION (&lt;10%)</u>                                                                                                                       |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact           | Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention immediately.                                                | Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention if irritation persists.                                   |
| Skin Contact          | Flush area with warm, running water for several minutes. Seek medical attention if irritation persists                                                           | Flush area with warm, running water for several minutes. Seek medical attention if irritation persists.                                                        |
| Inhalation            | Obtain fresh air.                                                                                                                                                | Obtain fresh air.                                                                                                                                              |
| Ingestion             | If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions. . | If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions. |
| Other Recommendations | Wash clothing before reuse.                                                                                                                                      |                                                                                                                                                                |

#### 4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

- ACUTE HEALTH EFFECTS:

| AREA EXPOSED | <u>Product as SOLD</u>                                                                                                | <u>Product at USE DILUTION (&lt;10%)</u>                                                                                              |
|--------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | Corrosive to eye tissue; contact will cause pain, redness, and tissue damage. Chemical burns and blindness may occur. | Causes serious eye irritation.                                                                                                        |
| Skin Contact | Corrosive to skin tissue; contact will cause pain, redness, and tissue damage. Chemical burns may occur.              | Causes mild to moderate skin irritation, depending on duration of contact                                                             |
| Inhalation   | Inhalation of sprays, mists may cause coughing, nasal congestion and sore throat.                                     | May causes respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.        |
| Ingestion    | Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. May be fatal if swallowed.         | Causes gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting if large volumes are ingested. |

- CHRONIC HEALTH EFFECTS:

| <u>Product as SOLD</u>                           | <u>Product at USE DILUTION (&lt;10%)</u> |
|--------------------------------------------------|------------------------------------------|
| Prolonged/repeated contact may cause dermatitis. | None reported.                           |

- TARGET ORGANS:

| <u>Product as SOLD</u> | <u>Product at USE DILUTION (&lt;10%)</u> |
|------------------------|------------------------------------------|
| Skin, eyes.            | Skin, eyes.                              |

#### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

The following information is for both **Product AS SOLD** and **Product at USE DILUTION**.

- GENERAL INFORMATION: For all exposures:** In case of accident, or if you feel unwell, seek medical advice immediately. Take this document and a copy of the label to the healthcare professional.
- RECOMMENDATIONS TO PHYSICIANS:** Treat symptomatically.
- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** None reported.

## SECTION 5: FIREFIGHTING MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

### 5.1 EXTINGUISHING MEDIA

- **RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Water Jet, Dry Powder, Foam, Carbon Dioxide, Halon, or any other.
- **UNSUITABLE FIRE EXTINGUISHING MEDIA:** None known.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- **NFPA FLAMMABILITY CLASSIFICATION:**

Classification

NFPA Rating

Product as SOLD



NFPA Classification

Not flammable.

Product at USE DILUTION (<10%)



Not flammable.

- **UNUSUAL HAZARDS IN FIRE SITUATIONS:**

Decomposition

Explosion Sensitivity to  
Mechanical Impact

Explosion Sensitivity to  
Static Discharge

Product as SOLD

Generates acidic vapors and oxides of phosphorus.

Not applicable.

Not applicable.

Product at USE DILUTION (<10%)

Generates acidic vapors and oxides of phosphorus.

Not applicable.

Not applicable.

### 5.3 ADVICE FOR FIREFIGHTERS

- Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool. Because this product is a cleaning agent, any equipment that comes in contact with this solution can be rinsed thoroughly with water and then returned to service.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning-up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Respond to non-incident chemical releases of this product (such as the simultaneous destruction of several pallets of this product or release involving 55-gallon drum) by clearing the impacted area and contacting appropriate emergency personnel.

In the event of a significant release, and if there is no other hazardous condition in the area, the use of an air-purifying respirator with acid gas cartridge, face-shield, safety glasses, and double gloves (e.g. nitrile over latex gloves), and body protection is recommended if splashes/sprays/mists can be generated during clean-up or the concentration of vapors is high. Use Self-Contained Breathing Apparatus if concentration of oxygen is less than 19.5% or is unknown.

## SECTION 6: ACCIDENTAL RELEASE MEASURES (Continued)

- **RESPONSE PROCEDURES FOR ANY RELEASE:** Absorb spilled liquid with polypads or other suitable absorbent materials. If appropriate, neutralize contaminated area and equipment with acid neutralizing agent (e.g., sodium bicarbonate). Rinse contaminated items and area thoroughly. Confirm that neutralization is complete by testing with pH paper.

### 6.2 ENVIRONMENTAL PRECAUTIONS

- Avoid response actions that can cause a release of a significant amount of the substance (more than 4, 1-gallon containers) into the environment. Avoid accidental dispersal of spilled material into soil, waterways and sewers.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- **SPILL RESPONSE EQUIPMENT:** Polypad or other absorbent material; acid neutralizing agent (e.g., sodium bicarbonate); pH paper.

### 6.4 REFERENCES TO OTHER SECTIONS

- **SECTION 8:** For exposure levels and detailed personal protective equipment recommendations.
- **SECTION 13:** For waste handling guidelines.

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

|                    | <u>Product as SOLD</u>                                                                                                                                                                                                                                                                                                         | <u>Product at USE DILUTION (&lt;10%)</u>                                                                                                                                                                                                                                                                                       |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hygiene Practices  | Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately. | Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately. |
| Handling Practices | Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.                                                                                                                                                                                                          | Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.                                                                                                                                                                                                          |

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

|                   | <u>Product as SOLD</u>                                                                                                                                                                                                                                                                                                                                                                                                  | <u>Product at USE DILUTION (&lt;10%)</u>                                                                                                                                                              |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage Practices | Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid; therefore, empty containers should be handled with care. | Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals. |
| Incompatibilities | See Section 10 (Stability and Reactivity).                                                                                                                                                                                                                                                                                                                                                                              | See Section 10 (Stability and Reactivity).                                                                                                                                                            |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

- U.S. NATIONAL EXPOSURE LIMITS:

| COMPONENT       | ACGIH TLV                                               | OSHA PEL                                                | NIOSH REL                                               | OTHER |
|-----------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------|
| Phosphoric Acid | 1 mg/m <sup>3</sup> (TWA)<br>3 mg/m <sup>3</sup> (STEL) | 1 mg/m <sup>3</sup> (TWA)<br>3 mg/m <sup>3</sup> (STEL) | 1 mg/m <sup>3</sup> (TWA)<br>3 mg/m <sup>3</sup> (STEL) | NE    |

- BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS: Not established.

### 8.2 EXPOSURE CONTROLS

|                        | Product as SOLD                                                                                                 | Product at USE DILUTION (<10%)                                                                                  |
|------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Engineering Controls   | Use in well-ventilated environment.                                                                             | Use in well-ventilated environment.                                                                             |
| Respiratory Protection | None needed in normal circumstances of use.                                                                     | None needed in normal circumstances of use.                                                                     |
| Hand Protection        | Neoprene or nitrile gloves are recommended. Ensure gloves are intact prior to use.                              | Standard chemical-resistant gloves used in janitorial work are recommended.                                     |
| Eye Protection         | Safety glasses. Face-shields are recommended when splash, sprays, or mists can be generated.                    | Safety glasses.                                                                                                 |
| Body Protection        | Standard protection used in janitorial service. If splashes or sprays can occur, a rubber apron should be used. | Standard protection used in janitorial service. If splashes or sprays can occur, a rubber apron should be used. |

### 8.3 PERSONAL PROTECTION SYMBOLS

|                     | Product as SOLD                                                                     | Product at USE DILUTION (<10%)                                                        |
|---------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Hand Protection     |   |   |
| Eye/Face Protection |  |  |
| Body Protection     |  |  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

|                                     | Product as SOLD    | Product at USE DILUTION (<10%) |
|-------------------------------------|--------------------|--------------------------------|
| Appearance                          | Green liquid.      | Colorless to light green.      |
| Odor                                | Acrid              | Slight acrid                   |
| Odor Threshold                      | Not determined.    | Not determined.                |
| pH                                  | 0.5-2.0            | 2.0-4.0                        |
| Melting Point/Freezing Point        | < 0°C (32 °F).     | Approx. 0°C (32 °F).           |
| Initial Boiling Point/Boiling Range | >100°C (210 °F).   | Approximately 100°C (212°F).   |
| Flash Point                         | Not applicable.    | Not applicable.                |
| Evaporation Rate (Water = 1)        | Approx. 1.0.       | Approx. 1.0.                   |
| Flammability                        | Not applicable.    | Not applicable.                |
| Upper/Lower Explosive Limits        | Not applicable.    | Not applicable.                |
| Vapor Pressure                      | Not determined.    | Not determined.                |
| Vapor Density                       | Not determined.    | Not determined.                |
| Relative Density (Density)          | 1.22 (10.2 lb/gal) | Approx. 1.0. (8.34 lb/gal)     |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES (Continued)

|                                       | <u>Product as SOLD</u>       | <u>Product at USE DILUTION (10%)</u> |
|---------------------------------------|------------------------------|--------------------------------------|
| Solubility                            | Completely soluble in water. | Completely soluble in water.         |
| Partition Coefficient/n-octanol/water | Not determined.              | Not determined.                      |
| Autoignition Temperature              | Not applicable.              | Not applicable.                      |
| Decomposition Temperature             | Not determined.              | Not determined.                      |
| Viscosity                             | Not determined.              | Not determined.                      |

### 9.2 OTHER INFORMATION

- **VOC (less water & exempt):** Not applicable.
- **WEIGHT% VOC:** Not applicable.

## SECTION 10: STABILITY AND REACTIVITY

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

### 10.1 REACTIVITY

- Not reactive under typical conditions of use or handling.

### 10.2 CHEMICAL STABILITY

- Normally stable under standard temperatures and pressures.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

- This product is not self-reactive, water-reactive, or air-reactive.
- This product will not undergo hazardous polymerization.

### 10.4 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals.

### 10.5 INCOMPATIBLE MATERIALS

- Strong oxidizing agents, strong bases, water reactive materials, aluminum and some metals.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition of this product include acidic vapors and oxides of phosphorus.

## SECTION 11: TOXICOLOGICAL INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- **ACUTE TOXICITY:**
  - **TOXICOLOGY DATA:** The following data are available for the hazardous components in this product listed in Section 3 (Composition/Information on Ingredients).  
PHOSPHORIC ACID:  
LD<sub>50</sub> (oral, rat) = 1.25 g/kg  
LD<sub>50</sub> (dermal, rabbit) = 2730 mg/kg  
LC<sub>50</sub> (inhalation, rat) = 50 mg/m<sup>3</sup>



## SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

- **DEGREE OF IRRITATION:** Causes severe skin burns and eye damage. May cause respiratory irritation.
- **SENSITIZATION:** The components of this product are not reported to have skin or respiratory sensitization effects.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazards Information) and Section 4 (First-Aid Measures) for additional details.

See Section 4 (First-Aid Measures) for more details.

### Eyes

**Product as SOLD**  
May cause moderate to severe eye irritation and chemical burns.

### **Product at USE DILUTION <10%**

May cause moderate to severe eye irritation and chemical burns, depending on duration of exposure.

### Skin

May cause moderate to severe skin irritation, and chemical burns.

May cause moderate to severe skin irritation, and chemical burns.

### Inhalation

Causes mild to severe irritation of membranes of nose, mouth, throat.

Causes mild to severe irritation of membranes of nose, mouth, throat.

### Ingestion

Causes severe irritation and chemical burns of gastrointestinal system. May be fatal if swallowed.

Causes severe irritation and chemical burns of gastrointestinal system. May be fatal if swallowed.

## • CHRONIC TOXICITY:

- **CARCINOGENICITY STATUS:** Not applicable.
- **REPRODUCTIVE TOXICITY INFORMATION:** The components of this product are not reported to cause reproductive effects under typical circumstances of exposure.
- **MUTAGENIC EFFECTS** The components of this product are not reported to cause mutagenic effects under typical circumstances of exposure.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

## • OTHER INFORMATION

- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

## SECTION 12: ECOLOGICAL INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

### 12.1 TOXICITY

- Based on available data, this product is anticipated to be harmful or fatal to contaminated terrestrial plants or animals.



## SECTION 12: ECOLOGICAL INFORMATION (Continued)

- The following aquatic toxicity data are available for components of this product:

### PHOSPHORIC ACID

LC<sub>50</sub> fishes = 138 mg/l, (96 Hours)

LC<sub>50</sub> other aquatic organisms = 100 - 1000 mg/l (96 hours)

LC<sub>50</sub> fish = 100 - 1000 mg/l

LC<sub>50</sub> other aquatic organisms = 240 mg/l

TLM fish = 138 ppm (24 hours, *Gambusia affinis*)

Threshold limit other aquatic organisms = 100 – 1000 (96 hours, Protozoa)

Threshold limit other aquatic organisms = 240 mg/L

### 12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

### 12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.

### 12.4 MOBILITY IN SOIL

- It is expected this product will have small mobility in soil. Some of the components may get into the soil and, ultimately, the ground water. Product spreads on the water surface.

### 12.5 OTHER ADVERSE EFFECTS

- None reported.

## SECTION 13: DISPOSAL CONSIDERATION

### 13.1 WASTE TREATMENT METHODS

#### Product as SOLD

Dispose of in accordance with local, State and Federal regulations.

#### Product at USE DILUTION

Dispose of unused product in accordance with local, State and Federal regulations.

### 13.2 DISPOSAL CONSIDERATIONS

- EPA RCRA WASTE CODE:** D002; applicable to wastes consisting only of this product.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

Information in this section is for **Product as SOLD**.

- DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:**

| UN/NA Number | Proper Shipping Name                                 | Packing Group | Hazard Class | Label     | North American Emergency Response Guide # | Marine Pollutant Status |
|--------------|------------------------------------------------------|---------------|--------------|-----------|-------------------------------------------|-------------------------|
| UN1760       | Corrosive Liquids, n.o.s. (Contains Phosphoric Acid) | III           | 8            | Corrosive | 154                                       | Not applicable.         |

- Limited Quantity Exceptions [49 CFR 173.154(b)(1)]:** Limited quantities for Class 8, Packing Group III materials have inner packagings not over 5.0 L [1.3 gal] (liquids) net capacity each, packed in strong outer packaging.
- CANADIAN TRANSPORTATION INFORMATION:** This product is regulated by Transport Canada as dangerous goods under Canadian transportation standards. Refer to above information.

## SECTION 14: TRANSPORT INFORMATION (Continued)

- **CANADIAN TRANSPORTATION INFORMATION:** This product is regulated by Transport Canada as dangerous goods under Canadian transportation standards. Refer to above information.
- **IATA DESIGNATION:** This product is regulated as dangerous goods by the International Air Transport Association. Use the following information:

| Proper Shipping Name                       | Passenger and Cargo Aircraft |                  |                     |                  | Cargo Aircraft Only |                  |
|--------------------------------------------|------------------------------|------------------|---------------------|------------------|---------------------|------------------|
|                                            | Limited Quantity             |                  | Packing Instruction | Max. Qty per PKG | Packing Instruction | Max. Qty per PKG |
|                                            | Packing Instruction          | Max. Qty per PKG |                     |                  |                     |                  |
| Corrosive liquid, n.o.s. (phosphoric acid) | Y841                         | 1L               | 852                 | 5L               | 856                 | 60L              |

- **IMO DESIGNATION:** This product is regulated as dangerous goods by the International Maritime Organization. Use the following information:

| Proper Shipping Name                       | Limited and Excepted Quantity Provisions |                     | Packing      |            | EmS   |
|--------------------------------------------|------------------------------------------|---------------------|--------------|------------|-------|
|                                            | Limited Quantities                       | Excepted Quantities | Instructions | Provisions |       |
| Corrosive liquid, n.o.s. (phosphoric acid) | 1L                                       | E1                  | P001, LP01   | --         | FA-SB |

### 14.2: ENVIRONMENTAL HAZARDS

- None described, as related to transportation.

### 14.3: SPECIAL PRECAUTIONS FOR USERS

- Not applicable.

### 14.4: TRANSPORT IN BULK

- Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT

#### • OTHER IMPORTANT U.S. REGULATIONS

- **U.S. SARA THRESHOLD PLANNING QUANTITY:** Not applicable to Hydrochloric Acid in this concentration.
- **U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** ACUTE: Yes; CHRONIC: Yes; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No
- **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Phosphoric Acid = 5000 lb (2270 mg/kg)
- **U.S. TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory.
- **U.S. SARA 313:** Not subject to the reporting requirements of SARA Title III, Section 313.
- **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.

#### • INTERNATIONAL REGULATIONS

- **CANADIAN REGULATORY STATUS:** The **PRODUCT as SOLD** is classified as hazardous under Canadian Hazardous Products Regulations. The SDS contains all required information.
  - **WHMIS 2015:** See Section 2.
  - **WHMIS 1988:** It is classified as E –Corrosive Material. See symbol to right.
- **CANADIAN DSL/NDL INVENTORY STATUS:** Components are listed or exempted.
- **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS:** No component is listed.



## SECTION 16: OTHER INFORMATION

### 16.1 INDICATION OF CHANGE

- **DATE OF REVISION:** February 22, 2016
- **SUPERCEDES:** January 12, 2015
- **CHANGE INDICATED:** Update of OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- TOXNET – <http://toxnet.nlm.nih.gov/>
- European Chemicals Inventory Classification and Listing: <http://echa.europa.eu>

### 16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

| Product as SOLD      |     |                                                                                                                                                                                                        | Product at USE DILUTION |     |                                                                                                                            |
|----------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----|----------------------------------------------------------------------------------------------------------------------------|
| Health               | 3   | HMIS Personal Protective Equipment Rating:                                                                                                                                                             | Health                  | 2   | HMIS Personal Protective Equipment Rating:                                                                                 |
| Flammability         | 0   | Occupational Use situations: C - Safety glasses and gloves and-body protection suitable to specific circumstances of use should be worn. D - Face-shield should be added if splashes/sprays can occur. | Flammability            | 0   | Occupational Use situations: B - Safety glasses and gloves. C - Rubber apron should be added if splashes/sprays can occur. |
| Physical Hazard      | 0   |                                                                                                                                                                                                        | Physical Hazard         | 0   |                                                                                                                            |
| Protective Equipment | C/D |                                                                                                                                                                                                        | Protective Equipment    | B/C |                                                                                                                            |

### 16.4 DISCLAIMER

WAXIE Sanitary Supply makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of their own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by WAXIE Sanitary Supply as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does WAXIE Sanitary Supply assume any liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. WAXIE Sanitary Supply does not recommend blending this product with any other chemicals. All information, recommendations and data contained herein concerning this product are based upon information available at the time of writing from recognized technical sources.

## SECTION 16: OTHER INFORMATION (Continued)

### 16.4: ABBREVIATIONS AND ACRONYMS

**ALL SECTIONS:** OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances.

**SECTION 3:** CAS Number: Chemical Abstract Service Number, which is used by the American chemical Society to uniquely identify a chemical.

**SECTION 5:** NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (F.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: F.P. below 73°F and BP below 100°F. Class IB: F.P. below 73°F and BP at or above 100°F. Class IC: :F.P. at or above 73°F and BP at or above 100°F. Class II: : F.P. at or above 100°F and below 140°F. Class IIIA: F.P. at or above 140°F and below 200°F. Class IIIB: F.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

**SECTION 8:** NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15 minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit. ppm: Parts per Million. mg/m<sup>3</sup>: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit.

**SECTION 9:** pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition.≈: Approximately symbol. VOC: Volatile Organic Compound.

**SECTION 11:** CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Mutagen: Substance capable of causing chromosomal damage to cells. Embryotoxin: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LDxx or LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to access the toxicity of chemical substances to humans. TDxx or TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.

**SECTION 12:** EC50: Effect Concentration (on 50% of study group); BOD: Biological Oxygen Demand. COD: Chemical Oxygen Demand. ThOD: Theoretical Oxygen Demand. TLM: Median Tolerance Limit.

**SECTION 13:** RCRA: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. EPA RCRA Waste Codes: Defined in 40 CFR Section 261.

**SECTION 15:** CERCLA: Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund") and SARA: (Superfund Amendment and Reauthorization Act). The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. TSCA: Toxic Substances Control Act: Rules regulating the manufacture and sale of chemicals found in 40 CFR 700-766. DSL/NDSL: Canadian Domestic Substances and Non-Domestic Substances Lists.

**SECTION 16:** HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard