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(S): 322317
- PRODUCT NAME: **1 GL: SUR-STEP Transform Heavy-Duty Cleaner & Anti-Slip Treatment**

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE OR USES ADVISED AGAINST

- RECOMMENDED USE: Floor cleaning and maintenance.
- 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 sold and used in relatively small volumes. This SDS has been developed to address safety concerns affecting small volume handling situations and those involving warehouses and other workplaces where large numbers of these items are stored or distributed.
- This product is intended to be used only after dilution. The relevant hazards and safety data 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	Product at USE DILUTION
Classification of the Substance or Mixture	Acute Toxicity Oral (Category 5); Acute Toxicity, Dermal (Category 5); Skin corrosion/irritation (Category 2); Eye damage/irritation (Category 2A)	Not a classified as a hazardous material.

2.2 LABEL ELEMENTS:

ELEMENT	Product as SOLD	Product at USE DILUTION
Hazard Pictograms		Not applicable.
Signal Word	WARNING.	Not applicable.
Hazard Statements	May be harmful if swallowed. May be harmful if in contact with skin. Causes skin irritation. Causes serious eye irritation.	Not applicable.
Precautionary Statements		

SECTION 2: HAZARDS IDENTIFICATION (Continued)

2.2 LABEL ELEMENTS (Continued):

ELEMENT	Product as SOLD	Product at USE DILUTION
Precautionary Statements		
Prevention	Keep out of reach of children. Read label before use. Wash exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.	Not established.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep in a position comfortable for breathing. IF SWALLOWED: Rinse mouth. Do not induce vomiting. Drink plenty of water.	Not established; follow guidelines in section 4.
Storage	None specified. See section 7 for details.	Not established; follow guidelines in section 7.
Disposal	Disposal should be in accordance with regional, national, state, and local regulations.	Not established; follow guidelines in section 13.

2.3 OTHER PERTINENT DATA ON CHEMICAL AND PHYSICAL HAZARDS:

- OTHER POTENTIAL HEALTH EFFECTS: Prudent practice is to implement the following procedures, associated with general chemical safety practice:
- IF INHALED: Remove victim to fresh air and keep in a position comfortable for breathing.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES/MIXTURES

COMPONENT	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w)
Sulfamic Acid	5329-14-6	Acute Toxicity, Oral (Category 4); Skin irritation (Category 2); Eye irritation (Category 2A), Corrosive to Metals (Category 1) Acute aquatic toxicity (Category 3)	1-5
1-Butoxy-2-Propanol	5131-66-8	Flammable liquids (Category 3); Skin irritation (Category 2); Eye irritation (Category 2A)	1-5
Hydrofluoric Acid	7664-39-3	Acute toxicity, Oral (Category 2); Acute toxicity, Inhalation (Category 2); Acute toxicity, Dermal (Category 1); Skin corrosion (Category 1A); Serious eye damage (Category 1)	0.1-1
Other components that do not contribute physical or health hazards at the concentrations present in the product.			Balance

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

AREA EXPOSED	Product as SOLD	Product at USE DILUTION
Eye Contact	Flush with copious amounts of water for 15 minutes. “Roll” eyes during flush. Seek medical attention if irritation persists.	Flush with copious amounts of water. “Roll” eyes during flush. Seek medical attention if irritation persists.

SECTION 4: FIRST AID MEASURES (Continued)

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.
Inhalation	Obtain fresh air. Place victim of contamination in a position comfortable for breathing.	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.
Additional First Aid	**Due to the presence of Hydrofluoric Acid, the following additional first aid steps should be considered if exposure symptoms occur:** **EYE CONTACT:** Rinse the eyes with a calcium gluconate 1% solution for 10 minutes. In the case of difficulty opening the lids, administer an analgesic eyewash. Do not use oily drops, ointment, or HF skin burn treatments. Consult an ophthalmologist or eye specialist and physician immediately in all cases. Take to a hospital immediately. **SKIN CONTACT:** Immediately apply calcium gluconate gel 2.5 % and massage into the affected area using rubber gloves; continue to massage while repeatedly applying gel until 15 minutes after pain is relieved. Alternately, immerse the burned area in a solution of 0.2% iced aqueous Hyamine 1622 or 0.13% iced aqueous Zephiran Chloride. If finger/fingernails are touched, even if there is no pain, dip them in a bath of 5% calcium gluconate for 15 to 20 minutes. Consult a physician immediately. **INHALATION:** Transport subject lying down, with the head higher than the body, to a quiet, uncontaminated and well ventilated location. Administer oxygen (2.5% calcium gluconate if available, can be oxygen nebulized with trained personnel) or cardiopulmonary resuscitation if necessary and as soon as possible. If patient is unconscious, give artificial respiration. Note: Mouth to mouth resuscitation is not recommended. Keep warm (blanket). Consult physician in all cases. Take to a hospital. I**NGESTION**: When directed by physician, give orally either 1% aqueous calcium gluconate solution, milk or calcium/magnesium containing anti-acid. Such solutions can be beneficial but also may be problematic if they induce vomiting.	

4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

- **ACUTE HEALTH EFFECTS:**

AREA EXPOSED	**Product as SOLD**	**Product at USE DILUTION**
Eye Contact	Causes serious eye irritation. R redness and pain may occur upon contact.	May cause eye irritation, depending on the duration of contact, redness and pain may occur.
Skin Contact	Causes skin irritation.	Mild skin irritation may occur, depending on duration of contact.
Inhalation	May cause respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.	May cause mild respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.
Ingestion	May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting if large volumes are ingested.	May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting.

- **CHRONIC HEALTH EFFECTS:**

Product as SOLD	**Product at USE DILUTION**
None reported.	None reported.

SECTION 4: FIRST AID MEASURES (Continued)

- **TARGET ORGANS:**

	Product as SOLD	Product at USE DILUTION
	Skin, eyes.	Not applicable.

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.
  - Due to the presence of Hydrofluoric Acid: Refer to information for Calcium gluconate and related treatments in the previous section. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.
- **MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** None reported.

SECTION 5: FIREFIGHTING MEASURES

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	Product as SOLD	Product at USE DILUTION
NFPA Rating		
NFPA Classification	Not normally flammable. Must be exposed to fire conditions before ignition can potentially occur.	Not flammable.

- **UNUSUAL HAZARDS IN FIRE SITUATIONS:**

	Product as SOLD	Product at USE DILUTION
Decomposition	Carbon dioxide, carbon monoxide, fluorine and sulfur compounds, and irritating vapors.	Carbon dioxide, carbon monoxide, fluorine and sulfur compounds, and irritating vapors.
Explosion Sensitivity to Mechanical Impact	Not applicable.	Not applicable.
Explosion Sensitivity to Static Discharge	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 is 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

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 should be worn when cleaning-up spills, to avoid prolonged contact and splash protection. Use caution during clean-up; contaminated floors and items may be slippery.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material. Subsequently, personnel can follow the instructions for incidental releases. As needed, respond to non-incidental releases of this product (such as the simultaneous destruction of several pallets of this product) by clearing the impacted area and contacting appropriate emergency personnel.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area thoroughly. Because this product is a cleaning solution, all items that come in contact with the solution can be returned to service after rinsing.

6.2 ENVIRONMENTAL PRECAUTIONS

- Avoid response actions that can cause a release of a significant amount of product (more than 4 gallons) 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.

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

ITEM	Product as SOLD	Product at USE DILUTION
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 vapors, 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

	Product as SOLD	Product at USE DILUTION
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

- **AIRBORNE EXPOSURE LIMITS:** The following data are available for the components listed in Section 3.

COMPONENT	ACGIH TLV	OSHA PEL	NIOSH REL	OTHER
Hydrofluoric Acid (as Fluoride Compound)	TWA – 0.5 ppm; Skin C – 2 ppm	TWA – 3 ppm	TWA – 3 ppm C (15-minute) = 6 ppm	NE

- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** The following Biological Exposure Indices are applicable to components of this product).
  - **Hydrofluoric Acid (as Fluoride Compound):** Fluoride in Urine (Prior to Shift) = 2 mg/L; Fluoride in Urine (End to Shift) = 3 mg/L.

8.2 EXPOSURE CONTROLS

	Product as SOLD	Product at USE DILUTION
Engineering Controls	Use in well-ventilated environment.	Use in well-ventilated environment.
Respiratory Protection	None normally needed.	None normally needed.
Hand Protection	Neoprene, PVC, or butyl gloves are recommended. Ensure gloves are intact prior to use.	Neoprene, PVC, or butyl gloves are recommended. Ensure gloves are intact prior to use.
Eye Protection	Safety glasses.	Safety glasses, during spill response only.
Body Protection	Standard protection used in janitorial service.	Standard protection used in janitorial service.

- **8.3 PERSONAL PROTECTION SYMBOLS**

	Product as SOLD	Product at USE DILUTION
Hand Protection		
Eye/Face Protection		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

	Product as SOLD	Product at USE DILUTION
Appearance	Clear, green.	Colorless liquid.
Odor	Sweet.	Sweet.
Odor Threshold	Not determined.	Not determined.
pH	2.0-3.0	Approximately 7
Melting Point/Freezing Point	Not determined.	Approx. 0°C (32 °F).
Initial Boiling Point/Boiling Range	Not determined.	Approximately100°C (212°F).
Flash Point	>93°C (200 °F).	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)	1.03 (8.6 b/gal)	Approx. 1.0.
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):** 26 g/L **WEIGHT% VOC:** 2.6%

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

- Product is not self-reactive, water-reactive, or air-reactive; it will not undergo hazardous polymerization**.**

10.4 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals and adverse storage conditions.

10.5 INCOMPATIBLE MATERIALS

- Strong oxidizers, reducing materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include carbon dioxide, carbon monoxide, fluorine and sulfur compounds.

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:**
  - **PRODUCT TOXICITY DATA:**
    - Acute Toxicity Estimate (oral) = 2000- 5000 mg/kg
    - Acute Toxicity Estimate (dermal) = 2000-5000 mg/kg
    - Unknown Acute Toxicity: 0.59% of mixture consists of ingredients with unknown acute toxicity.
  - **COMPONENT TOXICITY DATA:** The following data are available for the hazardous components in this product listed in Section 3.

SULFAMIC ACID

LD_{50} (Oral, Rat) = 3,160 mg/kg
LD_{50} (Oral, Mouse) = - 1,312 mg/kg
LD_{50} (Oral, Guinea Pig) = 1,050 mg/kg

HYDROFLUORIC ACID

LC_{50} (Inhalation, Mouse) = 342 ppm/1 hour.
LC_{50} (Inhalation, Rat) = 1276 ppm/1 hour.
LCLo (Inhalation, Human) = 50 ppm/30 minutes.

  - **DEGREE OF IRRITATION:** Causes skin irritation and serious eye irritation. Specific data for components are as follows:

SULFAMIC ACID

Skin – rabbit; Moderate skin irritation. Skin – Human; Mild skin irritation. Eyes – rabbit; Moderate eye 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.

	Product as SOLD	Product at USE DILUTION
Eyes	Causes serious eye irritation. R redness and pain may occur upon contact.	May cause eye irritation, depending on the duration of contact, redness and pain may occur.
Skin	Causes skin irritation.	Mild skin irritation may occur, depending on duration of contact.
Inhalation	May cause respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.	May cause mild respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.
Ingestion	May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting if large volumes are ingested.	May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting.

SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

- **CHRONIC TOXICITY:**
  - **CARCINOGENICITY STATUS:** The components of this product are not listed as carcinogens by NTP, IARC or OSHA.
  - **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, the **Product as Sold** may be harmful to contaminated terrestrial plants or animals if significant quantities are released into the environment.
- Based on available data, the **Product as Sold** may be harmful to contaminated aquatic plants or animals if significant quantities are released into the environment.
- The following aquatic toxicity data are available for components of this product listed in Section 3.

SULFAMIC ACID
LC50 - Pimephales promelas (fathead minnow) - 70.3
mg/l - 96 hours

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.
- The following data are available for components of this product:
  - **DIDECYL DIMETHYL AMMONIUM CHLORIDE:** Aerobic - Exposure time 28 days; Result: 69 % - Readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly. The following data are available for components of this product listed in Section 3:
  - **MONOETHANOLAMINE :** Partition Coefficient (Log Pow) = - 1.91

12.4 MOBILITY IN SOIL

- It is to be expected this product will have some mobility in soil. Some of the components may get into the soil and, ultimately, the ground water.

12.5 OTHER ADVERSE EFFECTS

- None reported.

SECTION 13: DISPOSAL CONSIDERATION

13.1 13.1 WASTE TREATMENT METHODS

Product as SOLD

- Dispose of contents/containers in hazardous or special waste collection point, an approved disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection site in accordance with local, regional and/or international regulation, except for empty clean containers which can be disposed of as non-hazardous waste.

Product at USE DILUTION

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

13.2 DISPOSAL CONSIDERATIONS

- **EPA RCRA WASTE CODE:** Not applicable to wastes consisting only of this product

SECTION 14: TRANSPORT INFORMATION

The following information is for the **Product as SOLD**.

14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

- **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
NOT APPLICABLE						

- **IATA DESIGNATION**: This product is not regulated as dangerous goods by the International Air Transport Association.
- **IMO DESIGNATION**: This product is not regulated as dangerous goods by the International Maritime Organization.

14.2 ENVIRONMENTAL HAZARDS

- The regulations related to Marine Pollutants are not applicable, due to volume size of product and concentration of the constituents.

14.3 SPECIAL PRECAUTIONS FOR USERS

- Not applicable.

14.4 TRANSPORT IN BULK

- Not applicable.

SECTION 15: REGULATORY INFORMATION

The following information is for the **Product as SOLD**.

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

- **OTHER IMPORTANT U.S. REGULATIONS**
  - **U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** ACUTE: Yes; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No.
  - **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Hydrofluoric Acid = 100 lb.
  - **U.S. CERCLA THRESHOLD PLANNING QUANTITY (TPQ):** Hydrofluoric Acid = 100 lb.
  - **U.S. SARA SECTION 313:** Hydrofluoric Acid is subject to reporting requirements of SARA Title III Section 313.
  - **U.S. TSCA INVENTORY STATUS:** All listed components of this product are on TSCA Inventory.
  - **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.

SECTION 15: REGULATORY INFORMATION

- **INTERNATIONAL REGULATIONS**
  - **CANADIAN REGULATORY STATUS: CANADIAN REGULATORY STATUS:** The product is classified as hazardous under Hazardous Products Regulations (SOR-2015-17).
    - WHMIS 2015: See section 2.
    - This SDS contains all the information required by the CPR.
  - **CANADIAN DSL/NDSL INVENTORY STATUS:** The listed components of this product are on the DSL/NDSL Inventory.
  - **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** The listed components of this product are not on the CEPA Priority Substances Lists.

SECTION 16: OTHER INFORMATION

16.1: INDICATION OF CHANGE

- **DATE OF REVISION:** June 8, 2017.
- **SUPERCEDES**: April 27, 2016.
- **CHANGE INDICATED:** Addition of dilution product; review of regulatory information.

16.2: KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- Federal OSHA Hazard Communication Standard: 29 CFR 1910.1200.
- TOXNET – http://toxnet.nlm.nih.gov/

16.3: HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

Product as SOLD

Health	**2**	HMIS Personal Protective Equipment Rating: Occupational Use situations: B- Safety glasses and gloves
Flammability	**1**	
Physical Hazard	**0**	
Protective Equipment	**B**	

Product at USE DILUTION

Health	**0**	HMIS Personal Protective Equipment Rating: Occupational Use situations: B- Safety glasses and gloves.
Flammability	**0**	
Physical Hazard	**0**	
Protective Equipment	**B**	

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)

16.5: 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 (Fl.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: Fl.P. below 73°F and BP below 100°F. Class IB: Fl.P. below 73°F and BP at or above 100°F. Class IC: Fl.P. at or above 73°F and BP at or above 100°F. Class II: Fl.P. at or above 100°F and below 140°F. Class IIIA: Fl.P. at or above 140°F and below 200°F. Class IIIB: Fl.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^3: 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: LD*xx* or LC*xx*: 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 assess the toxicity of chemical substances to humans. TD*xx* or TC*xx*: 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 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.