

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): 930042, 930043, 930044, 930045
- PRODUCT NAME: **Super Gloss 22% High-Solids, Super-Durable, Polymer Floor Finish**
 - 5 GL: 930042
 - 1.5 GL: 930043
 - 1 GL: 930044
 - 55 GL: 930045

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE

- RECOMMENDED USE: Floor finish resistant to black marks and scuffing.
- 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

- Not applicable.

SECTION 2: HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

OSHA/HCS Status

Classification of the Substance or Mixture Acute Toxicity, Inhalation (Category 4); Acute Toxicity, Oral (Category 4), Skin corrosion (Category 2); Serious eye damage (Category 2A); Target Organ System Toxicity (Single Exposure; Category 3; Respiratory System).

2.2 LABEL ELEMENTS (suggested):

Hazard Pictograms



Signal Word

WARNING.

Hazard Statements

Harmful if inhaled or swallowed. Causes skin and serious eye irritation. May cause respiratory irritation.

Precautionary Statements

Prevention

Keep out of reach of children. Use only outdoors or in well-ventilated area. Wash hands thoroughly after use. Do not eat, drink, or smoke when using this product. Wear eye protection/face protection/protective clothing/protective gloves.

SECTION 2: HAZARD IDENTIFICATION (Continued)

Response	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. 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 water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Storage	None specified. See section 7 for details.
Disposal	Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

2.3 OTHER PERTINENT HAZARDS NOT OTHERWISE CLASSIFIED

- **OTHER POTENTIAL HEALTH EFFECTS:** Ingestion of large quantities may cause nausea, and vomiting.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES/MIXTURES

CHEMICAL	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR CHEMICAL	% (w/w)
Diethylene Glycol Monoethyl Ether	111-90-0	Not classified as hazardous.	Proprietary ¹
Texanol	25265-77-4	Not classified as hazardous.	Proprietary
Tri(butoxyethyl) phosphate	78-51-3	Acute toxicity, Inhalation (Category 4), Acute toxicity, Dermal (Category 4), Skin irritation (Category 2), Eye irritation (Category 2A); Specific target organ toxicity - single exposure (Category 3), Respiratory system; Acute aquatic toxicity (Category 3); Chronic aquatic toxicity (Category 3)	Proprietary
Acrylic Acid Polymer	Not Established	Not classified as hazardous.	Proprietary
Zinc Oxide	1314-13-2	Acute aquatic toxicity (Category 1); Chronic aquatic toxicity (Category 1)	Proprietary
The remaining components of this product are not classified as hazardous in their existing concentrations			Balance

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

AREA EXPOSED

Eye Contact	Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Check for and remove contact lenses. Seek medical attention if irritation persists.
Skin Contact	Flush area with warm, running water for several minutes. Seek medical attention if irritation persists.
Inhalation	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.

¹ 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.

SECTION 4: FIRST AID MEASURES (Continued)

4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

- **ACUTE HEALTH EFFECTS:**

AREA EXPOSED

Eye Contact

Causes serious eye irritation.

Skin Contact

Causes mild to moderate skin irritation, depending on duration of contact.

Inhalation

May cause 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.

- **CHRONIC HEALTH EFFECTS:** Not applicable.

- **TARGET ORGANS:** Skin eyes.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- **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

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:**

NFPA Rating



NFPA Classification

Not flammable.

- **UNUSUAL HAZARDS IN FIRE SITUATIONS:**

Decomposition Products

Carbon dioxide, carbon monoxide, phosphorous and zinc compounds, and irritating vapors.

Explosion Sensitivity to Mechanical Impact

Not applicable.

Explosion Sensitivity to Static Discharge

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. 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 must be worn when cleaning-up spills. 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 chemical 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. In the event that over 5 gallons of this material has spilled, safety goggles with face-shield and air-purifying respirator with High Efficiency Particulate Filter with organic vapor cartridge should be worn.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area thoroughly. 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

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 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.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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.
Incompatibilities	See Section 10 (Stability and Reactivity).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

- AIRBORNE EXPOSURE LIMITS:** Not applicable.

COMPONENT	ACGIH TLV	OSHA PEL	NIOSH REL	OTHER
Diethylene Glycol Monoethyl Ether	NE	NE	NE	25 ppm [American Industrial Hygienists Workplace Environmental Exposure Levels (WEEL)]
Zinc Oxide	2 mg/m ³ (TWA); 10 mg/m ³ (STEL) Respirable Fraction)	5 mg/m ³ (TWA Respirable Fraction); 15 mg/m ³ (TWA, Total Dust)	5 mg/m ³ (TWA Total Dust); 15 mg/m ³ (C, Total Dust)	NE

- BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** Not established.

8.2 EXPOSURE CONTROLS

Engineering Controls	Use in well-ventilated environment.
Respiratory Protection	None needed in normal circumstances of use.
Hand Protection	Neoprene, PVC, or butyl gloves are recommended. Ensure gloves are intact prior to use.
Eye Protection	Safety glasses.
Body Protection	Standard protection used in janitorial service.

8.3 PERSONAL PROTECTION SYMBOLS

Hand Protection



Eye Protection



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque, white liquid.
Odor	Bland.
Odor Threshold	Not determined.
pH	7.5-9.0
Melting Point/Freezing Point	Not determined.
Initial Boiling Point/Boiling Range	> 99°C (210 °F).
Flash Point	Not applicable.
Evaporation Rate (Water = 1)	Not determined.
Flammability	Not applicable.
Upper/Lower Explosive Limits	Not applicable.
Vapor Pressure	Not determined.
Vapor Density	Not determined.
Relative Density (Density)	Approx. 1.02 (8.5 lb/gal)
Solubility	Completely soluble in water.
Partition Coefficient/n-octanol/water	Not determined.
Autoignition Temperature	Not applicable.
Decomposition Temperature	Not determined.
Viscosity	Not determined.

9.2 OTHER INFORMATION

- VOC (less water & exempt):** <1.0 g/L. **WEIGHT% VOC:** < 0. 1%.

SECTION 10: STABILITY AND REACTIVITY

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 acids, cationic agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include oxides of carbon (i.e., carbon monoxide and carbon dioxide) as well as phosphorous and zinc compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

• **ACUTE TOXICITY:**

○ **PRODUCT TOXICITY DATA:**

- Acute Toxicity Estimate (oral) = 301-1999 mg/kg
- Acute Toxicity Estimate (dermal) > 5000 mg/kg
- Acute Toxicity Estimate (inhalation) = 1.1-4.9 mg/L

○ **COMPONENT TOXICOLOGY DATA:** The following data are available for components of this product.

DIETHYLENE GLYCOL MONOETHYL ETHER

LD50 (oral, rat) = 10,502 mg/kg
LD50 (dermal, rabbit) = 9143 mg/kg
LC50 (Inhalation, rat) > 200 mg/L

TEXANOL

LD50 (oral, rat) = 6,500 mg/kg
LD50 (dermal, rabbit) = 15,200 mg/kg

TRI(BUTOXYETHYL) PHOSPHATE

LD50 (oral, rat) = 3,000 mg/kg
LD50 (dermal, rabbit) = 2050 mg/kg
LC50 (Inhalation, rat) > 6.4 mg/L – 4 hours

ZINC OXIDE

LD50 (oral, mouse) = 7.950 mg/kg
LD50 (inhalation, mouse) = 2,300 mg/m³

○ **DEGREE OF IRRITATION:** Irritating to the skin and eyes. See Section 4 (First Aid Measures) for more details. The following data are available for components of this product:

DIETHYLENE GLYCOL MONOETHYL ETHER

Skin, Rabbit = Mild
Eyes, Rabbit = Mild

TEXANOL

Skin, Rabbit = No Irritation

ZINC OXIDE

Skin, Rabbit = Mild irritation/24 hours
Eyes, Rabbit = Mild irritation/24 hours

○ **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.

Eyes	Very irritating to the eyes.
Skin	Mildly to moderately irritating, depending on duration of exposure.
Inhalation	May cause respiratory tract irritation if mists are inhaled.
Ingestion	Causes gastrointestinal system irritation and other adverse effects.

SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

- **CHRONIC TOXICITY:**
 - **CARCINOGENICITY STATUS:** The components of this product are not listed as carcinogens by IARC, NTP, 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

12.1 TOXICITY

- Based on available data, this product may be harmful or fatal to contaminated terrestrial or aquatic plants or animals, depending on the volume released into the environment.
- The following aquatic toxicity data are available for components of this product.

DIETHYLENE GLYCOL MONOETHYL ETHER

LC50 (Pimephales promelas): 9,650 mg/L - 96 hours
LC50 (Daphnia magna): 3,340 mg/L - 48 hours

TEXANOL

LC50 (Pimephales promelas): 33 mg/L - 96 hours
EC50 (Daphnia magna): 147.8 mg/L - 48 hours
EC50 (Selenastrum capricornutum): 18.4 mg/L - 72 hours

TRI(BUTOXYETHYL) PHOSPHATE

LC50 (Oncorhynchus mykiss): 24 mg/L - 96 hours
EC50 (Daphnia magna): 53 mg/L - 48 hours
LC50 (Inhalation, rat) > 6.4 mg/L - 4 hours

ZINC OXIDE

LC50 (Oncorhynchus mykiss): 1.1 mg/L - 96.0 hours
EC50 (Daphnia magna): 0.098 mg/L - 48 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:
 - **TEXANOL:** Aerobic - Exposure time 28 days; Result: 98 % - Readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly. The following data are available for components of this product:
 - **TRI(BUTOXYETHYL) PHOSPHATE:** Bioconcentration factor \leq 5.8

12.4 MOBILITY IN SOIL

- It is expected this product will have some mobility in soil.

12.5 OTHER ADVERSE EFFECTS

- None reported.

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

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

13.2 DISPOSAL CONSIDERATIONS

- **EPA RCRA WASTE CODE:** Not applicable.

SECTION 14: TRANSPORT INFORMATION

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

- 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 HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** ACUTE: Yes; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No
- U.S. SARA 313:** Diethylene Glycol Monoethyl Ether and Zinc Oxide (as zinc compounds) are subject to reporting levels established by SARA Title III, Section 313.
- U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable.
- U.S. TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory.
- CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.

- INTERNATIONAL REGULATIONS**

- 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 HPR.
- CANADIAN DSL/NDSL INVENTORY STATUS:** The listed components of this product are on the DSL/NDSL Inventory.
- CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS:** The components of this product are not on the CEPA Priority Substances Lists.

SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE

- DATE OF REVISION:** July 5, 2016
- SUPERCEDES:** April 20, 2015
- CHANGE INDICATED:** Update of formatting; inclusion of acute toxicity estimates.

SECTION 16: OTHER INFORMATION (Continued)

16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- SAFETY DATA SHEETS FOR COMPONENT PRODUCTS.
- Federal OSHA Hazard Communication Standard: 29 CFR 1910.1200.
- SAX – Dangerous Properties of Industrial Materials
- RTECS – Registry of Effects of Toxic Chemicals
- ESIS – European chemical Substances Information System <http://esis.jrc.ec.europa.eu/>

16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

Product as SOLD

Health 1

Flammability 0

Physical Hazard 0

Protective Equipment B

HMS Personal Protective Equipment Rating: Occupational Use situations: B - Safety glasses and gloves.

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.

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. **REACH:** European Union regulation, Registration, Evaluation, Authorization and Restriction of Chemical substances.

SECTION 2: **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; **IDLH:** Immediately Dangerous to Life and Health Concentrations. *Note:* In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document. **ppm:** Parts per Million. **mg/m³:** 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.

SECTION 9 (Continued): **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. **VOG:** 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 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. TD xx 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. **N/LOEC:** No/Lowest Observable Effect Concentration.

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.