

SAFETY DATA SHEET

This document is in compliance with requirements for Safety Data Sheets implemented under U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2024 and equivalent State Standards), guidelines from the United Nations Globally Harmonized System of Classification of Chemicals (GHS), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Hazardous Products Regulations (HPR), and the European Union regulation on the Classification, Labelling and Packaging of Substances and Mixtures (EC No. 1272/2008, EU 2020/878; EU 2024/2865). See section 16 for more information on national regulations.

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFICATION

- **PRODUCT NAME:** Sample Buffer
- **PRODUCT CODE:** 806-00036-00

1.2 PRODUCT USE AND RESTRICTIONS

- **IDENTIFIED USE:** Kit component for protein sequencing process.
- **USES ADVISED AGAINST:** Procedures not related to the intended use of this product.
- **IDENTIFIED USERS:** For sale to, use, and storage by personnel trained in handling product safely.

1.3 MANUFACTURER INFORMATION

MANUFACTURER/SUPPLIER:

- | | |
|---------------------------|---|
| | <u>MANUFACTURER</u> |
| • NAME: | Quantum SI, Inc. |
| • ADDRESS: | 29 Business Park Dr., Suite C; Branford, CT; 06405 |
| • BUSINESS PHONE: | 866-688-7374 (8:00 am to 5:00 pm, Eastern Standard Time) |
| • EMERGENCY PHONE: | Chemtrec (US and Canada): +1-800-424-9300.
(Outside US): +1-703- 5273887 |
| • EMAIL: | support@quantum-si.com |

DISTRIBUTORS

VWR International Co.
6040 Cantay Road; Mississauga, Ontario; Canada L5R 4J2
D-MARK Biosciences
35 Grand Marshall Dr, Scarborough
Ontario; Canada M1B 5W9
1-416-297-8220 (24 hours)

SECTION 2: HAZARD IDENTIFICATION

2.1 HAZARD CLASSIFICATION (US OSHA, CANADIAN WHMIS, and EU CLP)

- Flammable Liquids (Category 2); Eye irritation (Category 2A)

2.2 LABEL ELEMENTS (US OSHA, CANADIAN WHMIS, and EU CLP)

- **Hazard Pictograms:**



- **Signal Word:** Danger
- **Hazard Statements:** H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation.

- **Precautionary Statements:**

PREVENTION: P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P233: Keep container tightly closed. P264+P265: Wash hands thoroughly after handling. Do not touch eyes. P280: Wear protective gloves, protective clothing, and eye protection.

RESPONSE: P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P317: If eye irritation persists, get medical help. P370+P378: In case of fire, use CO2, dry chemical, or foam to extinguish.

STORAGE: P403+P235 Store in a well-ventilated place. Keep cool.

DISPOSAL: P501: Dispose of contents/container in accordance with local, regional, national, and international regulations.

SECTION 2: HAZARD IDENTIFICATION (Continued)

2.3 OTHER PERTINENT DATA ON HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS

- Contains no material classified as follows: Endocrine disrupting properties: In relation to human health and in relation to the environment (ED). Persistent, Bioaccumulative and Toxic (PBT); Very persistent and very bioaccumulative (vPvB); Persistent, mobile, and toxic (PMT) Very persistent and very mobile (vPvM).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 IDENTIFICATION OF HAZARDOUS SUBSTANCES IN PRODUCT

NAME	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w) ¹
Acetonitrile	75-05-8	Flammable liquids (Category 2); Acute toxicity – Oral (Category 4); Acute toxicity – Inhalation (Category 4); Acute toxicity – Dermal (Category 4); Eye irritation (Category 2A)	20%
The remaining ingredients do not pose a significant physical or health hazard.			Balance

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

- BASIC FIRST AID BY EXPOSURE ROUTE:

AREA EXPOSED

TREATMENT

Eye Contact:

Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention should any irritation develop.

Skin Contact:

Flush area with warm, running water for several minutes. Seek medical attention should any irritation develop, or signs of an allergic skin reaction arise (redness, itching).

Inhalation:

Obtain fresh air. Seek medical attention if irritation develops after exposure ends.

Ingestion:

If conscious only: Rinse mouth with water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- ACUTE HEALTH EFFECTS:

AREA EXPOSED

EFFECTS

Eye Contact:

Causes serious eye irritation.

Skin Contact:

May cause skin irritation upon prolonged exposure.

Inhalation:

May cause respiratory irritation upon prolonged exposure.

Ingestion:

Not anticipated to be a potential route of exposure.

- CHRONIC HEALTH EFFECTS: None known.

- TARGET ORGANS: 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 known.

¹ The exact composition is a trade secret. All required hazard and safety information has been provided for the products, per the regulations.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

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

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

NFPA FLAMMABILITY CLASSIFICATION:



NFPA Rating:

NFPA Hazard Classification: Class IB Flammable Liquid.

5.3 UNUSUAL HAZARDS IN FIRE SITUATIONS

POTENTIAL HAZARD

Decomposition:

Incompatibilities:

Explosion Sensitivity to Mechanical Impact:

Explosion Sensitivity to Static Discharge:

DESCRIPTION FOR PRODUCT

Fire may cause evolution of nitrogen oxides and hydrogen cyanide. Produces irritating vapors, oxides of carbon and nitrogen.

See Section 10 (Reactivity and Stability).

Not applicable.

Not applicable.

5.4 ADVICE FOR FIREFIGHTERS

- Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from the fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool. Prevent fire extinguishing water from contaminating surface water or groundwater systems. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapors is possible in the event of fire.

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.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Do not breathe vapors. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Use a damp sponge or polypad to carefully cleanse contaminated area or items. If appropriate, further clean contaminated area and equipment with soap and water solution, followed by a water rinse. Dispose of cleanup materials and rinses as hazardous waste.

6.2 ENVIRONMENTAL PRECAUTIONS

- **IN CASE OF SPILL:** Collect spillage promptly. Avoid response actions that can cause a release of a significant amount of substance into the environment. Avoid accidental dispersal of spilled material into soil, waterways, and sewers.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

- **SPILL RESPONSE EQUIPMENT:** Polypad or sponge. Appropriate waste container.

6.4 REFERENCE TO OTHER SECTIONS

- See Section 8 (Exposure Controls/Personal Protection) for personal protective equipment recommendations.
- See Section 13 (Disposal Recommendations) for information on waste disposal.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

- **HYGIENE PRACTICES:** Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists, sprays, or aerosols. Use in a 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.

7.2 CONDITIONS FOR SAFE STORAGE

- **STORAGE PRACTICES:** Ensure all containers are correctly labeled. Store containers away from direct sunlight and sources of intense heat. 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 material; therefore, empty containers should be handled with care.
- **INCOMPATIBILITIES:** See Section 10 (Stability and Reactivity).

7.3 SPECIFIC END USES

- This product is for use in protein sequencing processes by trained laboratory personnel.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

AIRBORNE EXPOSURE LIMITS:

- The following airborne occupational exposure limits have been established:

Component	CAS-No.	United States	Canada, United Kingdom	EU OEL
Acetonitrile	75-05-8	OSHA PEL (TWA): 40 ppm NIOSH REL (TWA) 20 ppm ACGIH (TWA): 20 ppm	TWA: 20ppm STEL (15 minutes): 60 ppm	TWA: TWA 8 hours: 40 ppm (Skin)

- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** None established.
- **DERIVED NO EFFECTS LEVEL:** The following levels have been established for acetonitrile:
 - **DERMAL:** Acute effects local: DNEL = 22 mg/cm²; Chronic effects systemic: DNEL = 32.2 mg/kg bodyweight/day
 - **INHALATION:** Acute effects systemic: DNEL = 102 mg/m³; Chronic effects systemic: DNEL = 68 mg/m³
- **PREDICTED NO EFFECT CONCENTRATION:** The following data is available for acetonitrile:
 - **Fresh water:** PNEC = 10 mg/L
 - **Fresh water sediment:** PNEC = 40.5 mg/kg sediment dry weight
 - **Marine water:** PNEC = 1 mg/L
 - **Marine water sediment:** PNEC = 4.05 mg/kg sediment dry weight
 - **Soil:** PNEC = 2.23 mg/kg soil dry weight
 - **Sewage treatment plant microorganisms:** PNEC = 32 mg/L

8.2 EXPOSURE CONTROLS

- **GENERAL GUIDELINES:** This product is intended for use by trained personnel as part of a kit.
- **ENGINEERING CONTROLS:** Ensure the area has adequate ventilation to ensure minimal inhalation of mists or sprays. Eyewash stations should be readily available.
- **RESPIRATORY PROTECTION:** Required when vapors are generated, but certified engineering controls may eliminate the need for extra respiratory protection.
- **HAND PROTECTION:** Neoprene or nitrile gloves are recommended if skin contact can occur (e.g., spill clean-up). Ensure gloves are intact prior to use.
- **EYE PROTECTION:** Safety glasses are required when handling.
- **BODY PROTECTION:** Body protection suitable to task is recommended (e.g., laboratory coat).
- **OTHER PROTECTIVE MEASURES:** Wash hands during breaks and at the end of handling the material. Immediately remove any contaminated clothing.

8.3 ENVIRONMENTAL EXPOSURE CONTROLS

- Minimize the generation of mists, sprays, or aerosols while using this product. Avoid release into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

• APPEARANCE AND DISTINGUISHING CHARACTERISTICS:

<u>PROPERTY</u>	<u>DATA</u>
State:	Liquid
Color:	White
Odor:	Sweet, ether-like
Odor Threshold:	Not determined
pH:	9.2

• PHYSICAL DATA:

<u>PROPERTY</u>	<u>DATA</u>
Melting Point/Freezing Point:	Not determined
Initial Boiling Point/Boiling Range:	Not determined
Flash Point:	21.1°C (70°F)
Evaporation Rate (Water = 1):	Not determined.
Flammability:	Flammable
Upper/Lower Explosion Limits	Not determined.
Vapor Pressure:	Not determined.
Vapor Density	Not determined.
Relative Density at 20 °C (68 °F)	Not determined.
Solubility:	Soluble in water
Partition Coefficient/n-octanol/water:	Not determined
Autoignition Temperature:	Not applicable.
Decomposition Temperature:	Not determined.
Kinematic Viscosity:	Not determined.
Particle Characteristics:	Not applicable.

9.2 INFORMATION RELEVANT TO PHYSICAL HAZARD CLASSIFICATION

- Information regarding Physical Hazard Classes Flammable liquid (Category 2)
- Other Safety Characteristics Eye irritant (Category 2A)

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY AND CHEMICAL STABILITY

- The product is not reactive under typical conditions of use or handling.
- Normally stable under standard temperatures and pressures.

10.2 POSSIBILITY OF HAZARDOUS REACTIONS (INCLUDING THOSE ASSOCIATED WITH FORESEEABLE EMERGENCY)

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

10.3 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals and adverse storage conditions.

10.4 INCOMPATIBLE MATERIALS

- Strong oxidizing and reducing agents. Strong acids and bases.

10.5 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include carbon oxides, carbon monoxide, carbon dioxide, and compounds of sodium and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON ACUTE TOXICITY

- **PRODUCT TOXICOLOGY DATA:** This product is not classified as acutely toxic by inhalation, ingestion, or skin contact.
- **COMPONENT TOXICOLOGY DATA:** The following data are available for components of this product:
 - Acetonitrile**
 LD 50 (oral, mouse) = 617 mg/kg
 LC50 (inhalation, mouse, male, and female, 4 h) = 6.022 mg/L – vapor
 LD50 (dermal, estimate) = 1,500 mg/kg
- **DEGREE OF IRRITATION:** This product causes serious eye irritation.
- **SENSITIZATION:** This product is not considered to be a sensitizer.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazard Information) and Section 4 (First-Aid Measures) for additional details.
 - **Eyes:** Causes serious eye damage upon exposure.
 - **Skin:** May cause irritation upon prolonged exposure.
 - **Inhalation:** May cause respiratory irritation upon prolonged exposure.
 - **Ingestion:** Not anticipated to be a route of occupational exposure.

11.2 INFORMATION ON CHRONIC TOXICITY

- **CARCINOGENICITY STATUS:** This product is not listed as a carcinogen by NTP, IARC, or OSHA.
- **REPRODUCTIVE TOXICITY INFORMATION:** Not applicable.
- **MUTAGENIC EFFECTS:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

11.3 OTHER USEFUL TOXICOLOGY INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL TOXICITY

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

Acetonitrile

LC50: 1850 mg/L, *Lepomis macrochirus*, 96 hours
 LC50: 1000 mg/L, *Pimephales promelas*, 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 is available for the components of this product:
 - **Acetonitrile:** Aerobic – Exposure time 21 days. Concentration: 684 mg/L. Result: 70% - Readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.

12.4 MOBILITY IN SOIL

- Based on its total solubility in water, this product is expected to have significant mobility in soil.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

- Not classified as PBT or vPvB.

12.6 ENDOCRINE DISRUPTING PROPERTIES

- None reported.

12.7 OTHER ADVERSE ENVIRONMENTAL EFFECTS

- None reported.

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

- Dispose of in accordance with local, state, and national regulations.

13.2 DISPOSAL CONSIDERATIONS

- **EPA RCRA WASTE CODE:** U003
- **SEWAGE DISPOSAL:** Waste should not be disposed of by release to sewers.


13.3 DISPOSITION OF EMPTY CONTAINERS

- Empty containers may contain residual material; therefore, empty containers should be handled with care.
- Empty containers should be discarded properly.

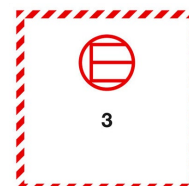
SECTION 14: TRANSPORT INFORMATION

14.1 HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS

- **DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS FOR PRODUCT:**

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
UN1648	Acetonitrile Solution	II	3		128	No

- **US DOT SMALL QUANTITY:** 6 mL tubes will qualify for small quantity exemption under 49 CFR 171.4.
- **IATA DESIGNATION:** 6 mL tubes can be shipped as Excepted Quantity under IATA Section 2.6 Dangerous goods in excepted quantities". . See symbol to right.
- **IMO DESIGNATION:** IMDG Code section that covers excepted quantity shipments is Section 3.5, titled "Dangerous goods packed in excepted quantities". See symbol to right.



14.2 ENVIRONMENTAL HAZARDS

- None known.

14.3 SPECIAL PRECAUTIONS FOR TRANSPORTERS

- None established.

14.4 TRANSPORT IN BULK

- **ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:** Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 OTHER IMPORTANT U.S. SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- **US TOXICITY SUBSTANCES CONTROL INVENTORY:** The components of this product are listed.
- **U.S. SARA THRESHOLD PLANNING QUANTITY:** Not applicable.
- **U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** Flammable liquid (category 2); Eye irritant (category 2A)
- **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable to product, based on composition and volume.
- **U.S. SARA TITLE 313:** Acetonitrile is listed.
- **U.S. CLEAN AIR ACT (SECTION 112r):** Not applicable.

SECTION 15: REGULATORY INFORMATION (Continued)

15.2 OTHER IMPORTANT U.S. STATE REGULATIONS FOR COMPONENTS

- **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.
- **NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCES LIST:** Acetonitrile is listed.
- **NEW JERSEY ENVIRONMENTAL SUBSTANCES LIST:** Acetonitrile is listed.
- **PENNSYLVANIA RIGHT-TO-KNOW LIST:** Acetonitrile is listed.

15.3 CANADIAN AND EU SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- **ADDITIONAL WHMIS INFORMATION:** This SDS contains all the required elements under the Canadian Hazardous Products Regulations.
- **CANADIAN DSL/NDL INVENTORY STATUS:** All components of this product are listed or exempted.
- **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** The components of this product are not on the CEPA Priority Substances List.
- **E.U. REACH:**
 - Acetonitrile is subject to REACH restrictions.
 - Acetonitrile EINECS Number is 200-835-2.

15.4 CHEMICAL SAFETY ASSESSMENT

- **ASSESSMENT INFORMATION:** No chemical safety assessment has been conducted.

SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE

- **DATE OF PREPARATION:** November 28, 2025
- **SUPERCEDES:** Not applicable.
- **CHANGE INDICATED:** New product.

16.2 HAZARDOUS MATERIALS SYSTEM RATING

Health	1	<i>(Personal Protective Equipment Rating: Occupational Use situations: Refer to section 8 for guidance on the selection of personal production.</i>
Flammability	3	
Physical Hazard	0	
Protective Equipment	*	

16.3 DEFINITIONS

SECTION	EXPLANATION OF TERMS/ABBREVIATIONS
ALL	OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances. HCS: Hazard Communication Standard (U.S.). HPR: Hazardous Products Regulations (Canada). EU: European Union. CLP: Union Classification, Labelling and Packaging of Substances and Mixtures
3	CAS Number: Chemical Abstract Service Number, used by the American Chemical Society to uniquely identify a chemical.
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 Blue = Health hazard; Red = Fire Hazard; Yellow = Reactivity Hazard. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
8	ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour workday); 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 ppm: Parts per Million. mg/m³: Milligrams per cubic meter. BEI: Biological Exposure Limit. MAK: Maximum Concentration Values in the Workplace; AIHA WEEL: AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; OEL: Occupational Exposure Limit.

SECTION 16: OTHER INFORMATION (Continued)

SECTION	EXPLANATION OF TERMS/ABBREVIATIONS
9	<u>pH</u> : 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, a pH value of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. <u>FLASH POINT</u> : Temperature at which a liquid generates enough flammable vapors so that ignition may occur. <u>AUTOIGNITION TEMPERATURE</u> : Temperature at which spontaneous ignition occurs. <u>LOWER EXPLOSIVE LIMIT (LEL)</u> : The minimal concentration of flammable vapors in air which will sustain ignition. <u>UPPER EXPLOSIVE LIMIT (UEL)</u> : The maximum concentration of flammable vapors in air which will sustain ignition.
11	<u>CARCINOGENICITY STATUS</u> : NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. <u>TOXICOLOGY DATA</u> : 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 assess 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.
12	<u>EC50</u> : Effect Concentration. PBT or vPvB: Persistent/ Bioaccumulative /Toxic; Very Persistent/ Very Bioaccumulative
13	<u>RCRA</u> : 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. <u>EPA RCRA Waste Codes</u> : Defined in 40 CFR Section 261.
15	<u>CERCLA</u> : Comprehensive Environmental Response, Compensation, and Liability Act. <u>SARA</u> : Superfund Amendments and Reauthorization Act. <u>TSCA</u> : Toxic Substances Control Act. <u>DSL/NDL</u> : Domestic Substances List/Non-Domestic Substances List. <u>REACH</u> : European Union regulation concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals. <u>EINECS</u> : European Inventory of Existing Commercial Chemical Substances
16	<u>HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING</u> : 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.