SAFETY DATA SHEET

SDS Number: US 8910 Revision Number 6.9
Revision Date 8-2-3016

1. PRODUCT DESCRIPTION & COMPANY IDENTIFICATION

Product identifier used on label: **ENVIRO-TEK™**

Other Means of Identification: Formula Science Product ID 8910, 8910-4, 8910-55, 8910-275

Recommended Use(s): Electrostatic control and decontamination of critical surfaces found in aerospace, semiconductor, electronics, laboratory, pharmaceutical production environments and nuclear generation facilities.

Uses advised against (Restrictions on use)**:** Never mix with other chemicals. Never under any circumstances, dispense this chemical into an airflow opening of electrical equipment.

Company Name: Formula Science Corporation
Address: 800 Curie Drive
Alpharetta, Georgia 30005 USA

Non-Emergency Telephone Number: +1-770-664-1225
Non-Emergency Fax Number: +1-770-664-1468
Non-Emergency e-mail: Safety@FormulaScience.com

Emergency Telephone Number:
***INFOTRAC*.net** Chemical Emergency Center in USA

+1-800-535-5053 For Telephone Callers from USA and Canada
+1-352-323-3500 For Telephone Calls from All Other Countries

2. HAZARD IDENTIFICATION

Emergency Overview:

GHS Label Pictogram(s)

SIGNAL WORD: DANGER

OSHA HAZARDS:
Flammable liquid, Irritant (inhalation, skin, eyes)

GHS Hazard Statement(s):

H225	Highly flammable liquid and vapor (Category 3)
H315	Causes skin irritation (Category 2)
H319	Causes serious eye irritation (Category 2/2A)
H332	Harmful if inhaled (Category 4)

Precautionary Statement(s):

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapors/ spray.
P280	Wear protective gloves/ eye protection/face protection.
P305+351+338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.

GHS Classification

Flammable liquids	(Category 3)
Eye irritation	(Category 2A)
Skin irritation	(Category 3)

HMIS Classification

Health Hazard:	2
Flammability:	3
Physical Hazards:	0

NFPA Rating

Health Hazard:	2
Fire:	3
Reactivity Hazard:	0

Potential Health Effects

Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Skin:	Harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes eye irritation.
Ingestion:	Harmful if swallowed.

Target Organs

Eyes, skin, respiratory system, gastrointestinal system

3. COMPOSITION – INFORMATION ON INGREDIENTS

Substance or Mixture: **This Product is a MIXTURE of multiple chemicals.**

Component Name	Product Identifier	Percentage %	GHS-US Classification
Specific information related to the identification of any ingredient of this product, and the concentration (% percentage) of any ingredient is withheld under Trade Secret protections granted to information of the manufacturer that is classified as confidential.			

4. FIRST AID MEASURES

Eye: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately!

Skin: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately!

Inhalation: Move exposed person to fresh air. If not breathing, or if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately!

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately!

Most Important symptoms and effects, both acute and delayed:

Eye: May cause eye irritation. Symptoms include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: May cause skin irritation. Symptoms may include redness, drying of skin, itching.

Inhalation: May cause respiratory tract irritation. Symptoms may include coughing, sneezing, excessive mucus, or other respiratory response(s).

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

Indications of any immediate medical attention and special treatment needed:
Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Interaction with Other Chemicals Which Enhance Toxicity: None Known

Medical Conditions Aggravated by Exposure: None Known

5. FIRE FIGHTING MEASURES

Flammability of the product: Flammable liquid. In a fire or if heated, a pressure increase within the sealed container. As a result of excessive pressure cause d by heating, the container may rupture, causing a release of liquid and vapor. Concentration of vapors in a confined environment such as a sewer may create a fire hazard.

Extinguishing media: Use dry chemical, CO_2, water spray (fog) or foam.

Not suitable: Do not use water jet.

Special exposure hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers form fire area if this can be done without risk. Use water spray to keep fire exposed containers cool.

Hazardous thermal decomposition products: Thermal decomposition result in creation of the following materials: Oxides of carbon.

Special protective equipment for fire fighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding work areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shot off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (See Section 8 of this SDS document.

Methods and Materials for Containment Clean-Up: Contain and/or absorb spill with a non-combustible absorbent material such as diatomaceous earth, sand, or vermiculite or with a chemical absorbsion pad, then sweep or squeegee the absorbent material. Dispose of collected absorbent materials in a suitable container for disposal. Do not flush to sewer or all to enter waterways. Wear appropriate PPE.

Spill: Stop the leak if this can be done without risk. Move containers from the spill area if this can be done without risk. Approach the release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Contain and collect spillage with non-combustible, absorbent material such as diatomaceous earth, sand, vermiculite, or with a chemical absorbsion pad, and then collect the absorbent material for placement into a suitable container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product. Note: See section 1 of this SDS document for information relating to chemical emergencies. See Section 13 of this SDS document for information about waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in a suitable container for disposal.

7. HANDLING AND STORAGE

Handling

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

Precautions for Safe Handling:

Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not ingest. Do not eat, drink or smoke in areas where this material is used. Wear personal protective equipment as described in SECTION 8 *Exposure Controls/Personal Protection* of this SDS.

Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatibilities and / Materials to Avoid:

Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids, isocyanates. Do not mix with other chemicals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure Limit(s):

Specific information related to the identification of any ingredient of this product, and the concentration (% percentage) of any ingredient is withheld under Trade Secret protections granted to information of the manufacturer that is classified as confidential..

Component Name	Exposure Limits
ENVIRO-TEK™ - Trade Secret Formula – information withheld	**ACGIH TLV** TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.

Engineering Control Measures:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended statutory limits. Provide local exhaust ventilation mist or vapors may be generated. Ensure compliance with regulatory exposure limits.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands and affected skin immediately after handling, before breaks, and at the end of the workday. Do not eat or drink when using this Product. Do not smoke when using this product. After handling this product, do not smoke until after hands and face have been thoroughly washed. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection Equipment:

Respiratory: No personal respiratory protective equipment normally required in normal use. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. **Recommended: nitrile or neoprene.**

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. **Recommended: splash goggles**

Skin: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat, cleanroom attire, or other personal protective equipment. (PPE) should be selected based upon utilization environment where this product will be utilized.

Environmental Exposure: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Clear, transparent
Color:	Purple
Odor:	Sweet aroma
Odor Threshold [ppm]:	No data available
Molecular Weight:	No data available
Molecular Formula:	Information withheld, Trade Secret protected
Decomposition Temperature:	No data available
Boiling Point/Range:	No data available
Melting/Freezing Point:	No data available
Vapor Pressure:	No data available
Vapor Density (air=1):	<1
Specific Gravity (water=1):	<1.0 @ 20 °C
Density:	>.8 kilograms per liter @ 20 ºC @ 68 ºF)
Solubility in Water:	Infinite
pH (as Provided):	7.0
Volatility in Air:	No data available
Evaporation Rate (ether=1):	>.85
Partition Coefficient (n-octanol/water):	No data available
Flash point (Closed Cup):	>160º F
Flammability (Vapor):	Flammable Liquid
Lower Flammability Level (in Air):	>8%
Upper Flammability Level (in Air):	>25.2%
Auto-Ignition Temperature:	>250ºC
Decomposition Temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Chemical stability:	This product is stable under recommended storage conditions.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization:	Under normal conditions of storage & use, hazardous polymerization will not occur.
Conditions Materials to avoid:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or incompatible with the following materials: reducing materials, metals, halogenated compounds and acids. Aqueous solutions containing chlorine.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under fire conditions, oxides of carbon are likely.

Section 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral LD50	Rat, 5,840 mg/kg
Inhalation LC50	6 h, vapor, rat >10,000 ppm
Dermal LD50	Rabbit .12,800 mg/kg
Other information on acute toxicity:	no data available
Skin corrosion/irritation:	no data available
Serious eye damage/eye irritation:	Eyes: no data available
Respiratory or skin sensitization:	no data available
Germ cell mutagenicity:	no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects:

Inhalation Harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin Harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure:

Effects Due to ingestion may include: Gastrointestinal disturbance, headache, nausea, vomiting, dizziness, weakness, confusion, drowsiness, unconsciousness.

At the time of publication, and to the best off our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

INTERACTION WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY: None known

Section 12 ECOLOGICAL INFORMATION

Toxicity:	Material is practically non-toxic to aquatic organisms on an acute basis
Persistence and degradability:	Readily biodegradable (77% in 10 days)
Bioaccumulative potential:	Bioconcentration factor (BCF) of 3.16
Mobility in soil:	no data available
PBT and vPvB assessment:	no data available
Other adverse effects:	no data available

Section 13 DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 TRANSPORTATION INFORMATION

DOT (USA)

UN number:	1993
Class:	3
Packing group:	II
Proper shipping name:	Flammable Liquids, n.o.s.
Marine pollutant:	No
Poison Inhalation Hazard:	No

IMDG

UN number:	1993
Class:	3
Packing group:	II
IMDG EMS-Number:	F-E, S-D
Proper shipping name:	Flammable Liquids, n.o.s.
Marine pollutant:	No

IATA

UN number:	1993
Class:	3

Transportation in Canada:

UN Number:	1993
Hazard Class:	3
Packing Group:	2
Proper Shipping Name:	Flammable Liquids, n.o.s.

Maritime Transportation:

UN Number:	1993
Hazard Class:	3
Packing Group:	2
Proper Shipping Name:	Flammable Liquids, n.o.s.

Always refer to local, regional, National and International transportation regulatory agencies regarding specific regulations on the shipping of hazardous materials, including and packaging requirements the mode of transport and routing.

Section 15 REGULATORY INFORMATION

UNITED STATES:
HCS Classification: Flammable liquid, Irritating material, target organ effects

U.S. Federal regulations: TSCA 8(a) IUR: Exempt

United States inventory (TSCA 8b): All components are listed or exempted.

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Health hazard

Clean Air Act (CAA) 112 accidental release prevention: No components were found.

Clean Air Act (CAA) 112 regulated flammable substances: No components were found.

Clean Air Act (CAA) 112 regulated toxic substances: No components were found.

SARA 313 IPA is subject to the reporting requirements of this section listed in 40 CFR 372.

DEA List I & II Chemicals: (Precursor Chemicals: Not listed

Supplier notification:
SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

Connecticut Carcinogen Reporting:	None of the components are listed.
Connecticut Hazardous Material Survey:	None of the components are listed.
Florida substances:	None of the components are listed.
Illinois Chemical Safety Act:	None of the components are listed.
Illinois Toxic Substances Employee Disclosure Act:	None of the components are listed.
Louisiana Spill:	None of the components are listed.
Louisiana Reporting:	None of the components are listed.
Massachusetts Spill:	None of the components are listed.
Massachusetts Substances:	None of the components are listed:
Minnesota Hazardous Substances:	None of the components are listed.
Michigan Critical Material:	None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act:	None of the components are listed.
New Jersey Spill:	None of the components are listed.
New Jersey Hazardous Substances:	None of the components are listed.
New York Toxic Chemical Release Reporting:	None of the components are listed.
New York Acutely Hazardous Substances:	None of the components are listed.
Pennsylvania RTK Hazardous Substances:	None of the components are listed.
Rhode Island Hazardous Substances:	None of the components are listed.
California Prop. 65:	None of the components are listed.

CANADA:

WHMIS (Canada):	Class B-2: Flammable liquid.
Class D-1B:	N/A
Class D-2A:	N/A
Class D-2B:	N/A
Canadian lists: CEPA Toxic substances:	None of the components are listed.
Canadian ARET:	None of the components are listed.
Canadian NPRI:	None of the components are listed.
Alberta Designated Substances:	None of the components are listed.
Ontario Designated Substances:	None of the components are listed.
Quebec Designated Substances:	None of the components are listed.
CEPA DSL / CEPA NDSL:	All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International Regulations:

International lists: Australia inventory (AICS):	All components are listed or exempted.
China inventory (IECSC):	All components are listed or exempted.
Japan inventory:	All components are listed or exempted.
Korea inventory:	All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC):	All components are listed or exempted.
Philippines inventory (PICCS):	All components are listed or exempted.

Section 16 OTHER INFORMATION

This Safety Data Sheet was Prepared By: Product Safety Department, Formula Science Corporation.

Date of This SDS Revision	SDS Number	Revision Number	Replaces Revision Number	Previous Revision Date
9-25-2016	US-8910	16.9	5.4	4-1-2015

IMPORTANT!

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This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and Formula Science assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, the safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws.

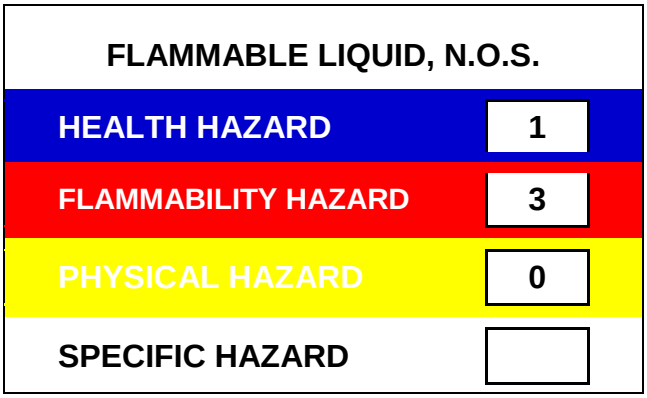
OSHA Standard 29 CFR 1910.1200 mandates that employers provide information regarding the hazards of chemicals to their employees by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that the information conveyed by means of this Safety Data Sheet be provided to available to employees in compliance with any and all applicable safety standards.

National Fire Protection Association (NFPA) 704 Hazard Rating System:

NFPA Health Hazard Rating	NFPA Flammability Hazard Rating	NFPA Reactivity Rating	Special Hazard(s)
1	3	0	

The National Fire Protection Association (NFPA) 'Safety Diamond' for this product is shown below:

The National Fire Protection Association NFPA) 'Color Bar' for this product is shown below:



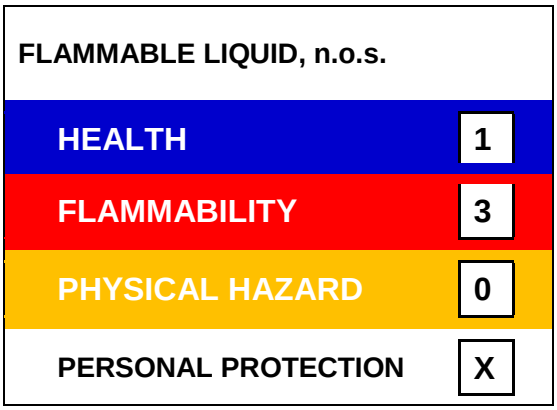
The National Fire Protection Association developed the NFPA 'Color Bar' as a standardized method to communicate hazards associated with chemicals used in the workplace. The NFPA 'Color Bar' is similar in appearance to the HMIS 'Color Bar' developed by the National Paint and Coatings Association (NFPA) discussed in the following subheading of this Safety Data Sheet. Use care to ensure there is no confusion between that the NFPA and HMIS 'Color Bars'.

Hazardous Materials identification System (HMIS) Hazard Classification:

HMIS Health Rating	HMIS Flammability Rating	HMIS Reactivity Rating	Personal Protection
1	3	0	X

(As per HMIS: Rating Instructions, 2nd Edition)

Hazardous Materials Identification System HMIS 'Color Bar' for this product is shown below:



HMIS HAZARD IDENTIFICATION CODE DEFINITIONS

HMIS HAZARD CODE	HAZARD NUMBER DEFINITION
4	SEVERE HAZARD
3	SERIOUS HAZARD
2	MODERATE HAZARD
1	SLIGHT HAZARD
0	MINIMAL HAZARD
PERSONAL PROTECTION Code 'X' =	Ask supervisor or safety specialist for handling instructions.

The Hazardous Material Identification System (HMIS) was developed by the National Paint & Coatings Association to identify hazards associated with chemicals used in the workplace. The appearance of the HMIS 'Color Bar' is not to be confused with the similar 'Color Bar' developed by the National Fire Protection Association (NFPA) which is discussed in immediately preceding subheading. Use care to ensure there is no confusion between that the NFPA and HMIS 'Color Bars'.

Revisions to this Safety Data Sheet (SDS) Sheet Document:

Updated the SDS to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200)	
• Updated the SDS header	Top of All Pages
• Updated the SDS footer	Bottom of All Pages
• Product Identifier has been updated	SECTION 1
• Updated OSHA Status Revised	SECTION 2
• GHS Information Revised	SECTION 2
• Added Synonym(s)	SEE SECTION 3
• Updated First Aid Measures	SEE SECTION 4
• Modified Fire Fighting Measure Recommendations	SEE SECTION 5
• Revised Accidental Release Measures	SEE SECTION 6
• Revised Handling and Storage Recommendation	SEE SECTION 7
• Revised Exposure Controls/Personal Protection information	SEE SECTION 8
• Updated Physical and Chemical Properties	SEE SECTION 9
• Updated Stability and Reactivity Recommendations	SEE SECTION 10
• Toxicological Information has been Revised	SEE SECTION 11
• Updated Disposal Considerations	SECTION 13
• Updated Transportation Information	SECTION 14
• Regulatory Information Updated	SECTION 15
• Revised Preparer Information	SECTION 16
• Revised Disclaimer Statement	SECTION 16
• Added the NFPA ‘Fire Diamond’	SECTION 16
• Added the NFPA ‘Color Bar’	SEE SECTION 16
• Added/Updated Revision Log	SEE SECTION 16

- END OF SAFETY DATA SHEET -