

SPILLFIX 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), the American National Standards Institute (Z400.1, 1998), and equivalent state Standards. It has also been developed in accordance with the Canadian Workplace Hazardous Materials Standard and the United Nations Globally Harmonized System of Classification of Chemicals, as well as European Union requirements under REACH (Registration, Evaluation, Authorization and Restriction of Chemical substances, per EC 1907/2006) and Directive 91/155/EC. Refer to Section 16 of this document for the definition of terms and abbreviations

Please contact the manufacturer and/or distributor for information on SpillFix's ability to absorb substances not listed on page 6. **DO NOT USE** SpillFix as a substitute for safe handling practices of any chemical, or assume its suitability on substances not listed.

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1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

- *Product Name* 13Gal/50L & 4Gal/15L SpillFix Industrial Organic Absorbent
2.25Gal/9L SpillFix Spill Absorbent & Sweeping Compound
10ft/3M & 5ft/1.5M SpillFix Industrial Absorbent Boom SOCs
- *Chemical Name/Class* Coir Pith Fiber

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE OR USES ADVISED AGAINST

- *Identified Use* Industrial liquid spill absorbent and sweeping compound
- *Uses Advised Against* Refer to Section 6: (6.6)

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- *Manufacturer* Galuku Group Limited
- *Supplier* American Green Ventures (US) Inc.
- *Address* 180 Towerview Court Cary,
North Carolina 27513
- *Business Phone* (919) 535 8278

1.4 OTHER PERTINENT INFORMATION

- This product is sold for use as an industrial liquid/hazardous materials absorbent. This document has been developed to specifically address safety concerns affecting handling situations specific to the product alone (e.g., those associated with warehouses and other distribution workplaces). When used as an absorbent, the safety data sheets and other references for the spilled material should be reviewed as part of standard release clean-up plans.

2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

REGULATION	CLASSIFICATION
<i>OSHA Hazard Communication (GHS)</i>	Not applicable
<i>Reach/CLP (GHS)</i>	Not applicable
<i>EU Directives 67/548/EEC; 1999/45/EC</i>	Not applicable

2.2 LABEL ELEMENTS

- *OSHA/CLP - Based on Globally Harmonized System*

<i>Symbol</i>	Not applicable
<i>Signal Word</i>	Not applicable
<i>Hazard Statement</i>	Not applicable
<i>Precautionary Statements</i>	Not applicable
- *EC Directive Symbols, Risk and Safety Phrases*

<i>Symbol</i>	Not applicable
<i>Risk Phrases</i>	Not applicable
<i>Safety Phrases</i>	Not applicable

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2: HAZARDS IDENTIFICATION (cont.)

2.3 OTHER PERTINENT DATA ON CHEMICAL AND PHYSICAL HAZARDS:

• **Emergency Overview**

Physical Description

This is a brown organic substance. It is odorless.

Health Hazards

No significant health hazards are anticipated under typical circumstances of use or release response.

Fire Hazards

This product does not present a significant fire hazard.

Physical Hazards

Negligible under typical circumstances of use or reasonably anticipated emergency response situations.

Environmental Hazards

This product is not anticipated to cause adverse environmental effects.



• **Hazardous Materials Identification System**

Health	0
Flammability	0
Physical Hazard	0
Protective Equipment	NA

HMIS PERSONAL PROTECTIVE EQUIPMENT RATING

Occupational use situations: Select the personal protective equipment appropriate to the volume of liquid released, location of the spill, and nature of the substance to be cleaned-up.

• *Canadian Regulatory Status*

This product is not classified as hazardous under Canadian Controlled Products regulations (SOR-88-66).

• *Canadian WHMIS Symbols*

Not applicable

3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

- *Component* Coir Pith Fiber
- *Cas Number* Not Established
- *Einecs # EC* Not Established
- *Class/Risk Phrases* Not Established
- *% (w/w)* 90-95%

3.2 MIXTURES

- *Component* Water
- *Cas Number* 7732-18-5
- *Einecs # EC* 231-791-2
- *Class/Risk Phrases* Not Established
- *% (w/w)* Balance

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4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

- *Eyes* Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention if irritation persists. Skin: Flush area with warm, running water. Inhalation: Obtain fresh air.
- *Ingestion* Contact a Poison Control Center or physician for instructions.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS/ACUTE AND DELAYED

- *Acute* The main hazard associated with this product in an occupational setting would be mechanical irritation of the eye, or slight irritation upon contact with the particulates. Inhalation of particulates can be irritating to the nose, throat, and other tissues of the respiratory system. Symptoms of exposure are generally alleviated when overexposure ends.
- *Chronic* No long-term effects related to chronic exposures are anticipated from occupational use situations involving this product.
- *Target Organs* Acute: Eyes, skin (mechanical irritation). Chronic: Not applicable

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- *Recommendations to Physicians* Treat symptoms and eliminate overexposure.
- *Medical Conditions Aggravated* No known medical conditions are anticipated to be aggravated
- *By Overexposure* by occupational exposure to this product.

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* Not flammable
- *Unusual Hazards in Fire Situations* When involved in a fire, this material may produce irritating vapors and toxic gases (e.g., carbon monoxide, carbon dioxide).
- *Explosion Sensitivity to Mechanical Impact* Not sensitive
- *Explosion Sensitivity to Static Discharge* Not sensitive

5.3 ADVICE FOR FIREFIGHTERS

- No special hazards or requirements; use methods appropriate to type of fire and size of blaze.

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6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- *Note* This material is for use as a spill absorbent material and/or sweeping compound. The following section refers only to accidental spills of this product alone. If SpillFix is being used as a universal absorbent, then the safety data sheet and other references pertinent to the released substances must be reviewed.
- *Response to Incidental Releases* Personnel who have received basic chemical safety training can generally handle small-scale releases. Wear gloves and safety glasses when cleaning-up spills.
- *Response to Non-Incidental Releases* Unused SpillFix is completely safe and harmless. Simply place back in container.
- *Response Procedures for any Release* Carefully sweep up spilled material and place back in container
- *Note* This product effectively absorbs an extensive list of materials – Full list shown in 6.6

6.2 ENVIRONMENTAL PRECAUTIONS

- *Environmental Precautions* No precautions necessary, SpillFix is an environmentally safe natural organic material.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- *Spill Response Equipment* Broom/dust pan and/or shovel.

6.4 REFERENCES TO OTHER SECTIONS

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

6.5 USING PRODUCT AS UNIVERSAL LIQUID ABSORBENT

- *These steps should be followed when using this product as a liquid absorbent:*
 1. Identify and isolate spill. Always follow workplace procedures for cleanup and disposal.
 2. Apply SpillFix to perimeter of spill to stop from spreading.
 3. Continue to apply SpillFix to center until spill is completely covered and no free liquid is visible.
 4. Sweep with a stiff broom working over spill area to remove all surface oil. Dispose of in accordance of local and state regulations.

6: ACCIDENTAL RELEASE MEASURES (cont.)

6.6 EFFECTIVELY ABSORBS THE FOLLOWING TYPES OF MATERIALS:

- *Full strength:*

Acetaldehyde	Acetic Acid	Acetic Anhydride	Acetone
Acrylic Paint	Aluminum Hydroxide	Ammonium Hydroxide	Antifreeze
Aviation Fuel	Automotive Fluids	Barium Hydroxide	BBQ Sauce
Battery Acid	Bleach	Blood	Bodily Fluids
Boric Acid	Brake Fluid	Calcium Hydroxide	Car Wax
Calcium Hypochlorite	Carbon Black	Castor Oil	Chlorine Water
Chloroform	Citric Acid	Clorox (Bleach)	Coolant
Corn Oil	Cottonseed Oil	Cresol	Dairy Products
Degreasers	Detergents	Drilling Fluids	Enamel Paint
Ethylene Glycol	Ethylenediamine	Fabric Softeners	Ferric Chloride
Floor Wax	Formic Acid	Fruit Juice	Fuel Oil
Glycerol	Gorilla Glue	Grape Juice	Hydraulic Fluid
Hydrocarbon Fluids	Ice Cream	Italian Dressing	Juice
Ketchup	Latex Paint	Laundry Detergent	Linseed Oil
Liquid Polymers	Lubricating Oil	Magnesium Hydroxide	Milk
Mineral Oil	Motor Oil	Nitric Acid	Nutella Spread
Octane	Oil	Oil Paint	Olive Oil
Orange Juice	Paint	Paint Thinners	Paraffin
Petroleum Ether	Phenol	Phosphoric Acid	Polymers
Power Steering Fluid	Propylene Glycol	Ranch Dressing	Resins
Salad Dressing	Sauce	Silicone Oil	Softeners
Sodium Bicarbonate	Sodium Bisulfite	Sodium Chloride	Sodium Hydroxide
Solvents	Soup	Soy Bean Oil	Soy Milk
Spray Paint	Sucrose	Skydrol	Synthetic Motor Oil
Syrup	Tomato Sauce	Tannic Acid	Transformer Oil
Transmission Fluid	Turpentine	Urine	Water
Wine	Wood Stain	Xylene	

- *In Acceptable Dilutions:* (Concentrations shown are relevant to substances in industrial use.)

Hydrochloric Acid (45%)	Hypochlorite Solution (18%)
Hydrogen Peroxide (70%)	Peracetic Acid (15%)
Peroxide (70%)	Potassium Hydroxide (45%)
Sulfuric Acid (50%)	

- **Note** Before handling used material refer to the SDS (materials safety data sheet) for the substance to be absorbed.

- *Substances Non Listed Above*

Please contact the manufacturer and/or distributor for information on SpillFix's ability to absorb substances not listed above. DO NOT use SpillFix as a substitute for safe handling practices of any chemical, or assume its suitability on substances not listed above.

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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 while using the product for spill clean-up. Unused material (SpillFix) is harmless and safe to touch. Avoid contact with eyes.
- *Handling Recommendations* Employees must be appropriately trained to use this product safely as needed.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- *Storage Recommendations* Store in a cool dry place away from incompatible chemicals (See Section 10, Stability and Reactivity).
- *Storing Unused Material After Opening* Keep tightly closed and store in a cool dry place away from incompatible chemicals.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

- *U.S. National Exposure Limits*

Component	ACGIH TLV	OSHA PEL (ppm)	NIOSH REL (ppm)	Other
Coir Pith Fiber	NE	NE	NE	NE
Water	NE	NE	NE	NE

- *International Exposure Limits*

Component	Federal Republic of Germany (DFG) Maximum Concentration Values in the Workplace (MAKs)	Other
Coir Pith Fiber	NE	NE
Water	NE	NE

- *Biological Occupational Exposure Limits* Not Established
- *Derived No Effect Level (DNEL)* Not Established
- *Predicted No Effect Concentration (PNEC)* Not Established

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8: EXPOSURE CONTROLS/PERSONAL PROTECTION (cont.)

8.2 EXPOSURE CONTROLS

As Necessary, Refer to Reference Materials of Spilled Substance.

Otherwise, use the Following Guidelines:

- **Engineering Controls** Use this product in well-ventilated environment. Safety showers, eye wash stations, and hand-washing equipment should be available, based on the chemical inventory specific to the facility.
- **Respiratory Protection** None needed under routine circumstances of use or handling. A dust mask can be considered if inhalation of significant amounts of dusts/particulates could occur.
- **Hand Protection** Nitrile, latex, or neoprene gloves should be used.
- **Eye Protection** Splash goggles or safety glasses with side shield are recommended if contact with dusts/particulates from this product may occur.
- **Body Protection** Protection appropriate for work situation (e.g., lab coat).

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

a) APPEARANCE	Brown solid	k) VAPOR PRESSURE (mmHg @ 20°C):	Not applicable
b) ODOR	None	l) VAPOR DENSITY	Not applicable
c) ODOR THRESHOLD	None	m) RELATIVE DENSITY (water=1)	Not determined
d) pH	Not applicable	n) SOLUBILITY	Insoluble in water
e) MELTING POINT/ FREEZING POINT	Not applicable	o) PARTITION COEFFICIENT: NOCTANOL/ WATER	Not determined
f) INITIAL BOILING POINT AND BOILING RANGE	Not applicable	p) AUTO-IGNITION TEMPERATURE	Not applicable
g) FLASH POINT	Not applicable	q) DECOMPOSITION TEMPERATURE	Not determined
h) EVAPORATION RATE (water=1)	Not applicable	r) VISCOSITY	Not applicable
i) FLAMMABILITY	Not flammable	s) EXPLOSIVE PROPERTIES	Not applicable
j) UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not applicable	t) OXIDIZING PROPERTIES	Not an oxidizer

9.2 OTHER INFORMATION

- **VOC (less water & exempt)** None.
- **Weight % VOC** Not applicable.

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

- Refer to 6.6 for extensive list of compatible materials that can be absorb by this product (For compatibility of materials not listed please contact manufacture).

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition of this product can include carbon monoxide, carbon dioxide, and nitrogen oxides.

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11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- *Acute Toxicity* There are no specific toxicity data are available for components of this product. This product is non-toxic by all routes of entry.

Degree of Irritation: Potentially mild mechanical irritation.

Sensitization: Not reported to have skin or respiratory sensitization effects.

Review of Acute See Section 2 (Hazards Information) and Section 4

Symptoms and Effects: (First-Aid Measures) for details.

EYES: Contact with product may cause mild mechanical eye irritation.

SKIN: Contact with product may cause mild mechanical skin irritation.

INHALATION: Contact with dusts may cause mild mechanical irritation of the mucous membranes of the nose, throat, and mouth.

INGESTION: Ingestion may cause a variety of health effects, as described in Section 4 (First-Aid Measures).

11.2 CHRONIC TOXICITY

Carcinogenicity Status: The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency.

<i>Chemical</i>	<i>IARC</i>	<i>NTP</i>	<i>NIOSH</i>	<i>OSHA</i>	<i>Other</i>
Coir Pith Fiber	NO	NO	NO	NO	NO

Reproductive Toxicity Information: This product is not anticipated to cause adverse reproductive effects under typical circumstances of exposure under routine work situations.

11: TOXICOLOGICAL INFORMATION (cont.)

11.2 CHRONIC TOXICITY (cont.)

Mutagenic Effects The components of this product are not reported to cause mutagenic effects under typical circumstances of occupational exposure.

Specific Target Organ Toxicity (Single Exposure) Not applicable

Specific Target Organ Toxicity (Repeated Exposure) Not applicable

- **OTHER INFORMATION**

Toxicologically Synergistic Products None known

12: ECOLOGICAL INFORMATION

12.1 TOXICITY

- This product is derived from coconut husk. Based on available data, the pure product is not anticipated to be harmful to contaminated plants or animals.
- Based on available data, the pure product is not anticipated to be harmful to contaminated aquatic plants or animals in the area immediately surrounding the release of the pure product.

12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the product is expected to biodegrade.
- Coir Fiber Pith (SpillFix) consists of 53% Lignin. The high lignin composition slows the decomposition of the biodegradable material. This allows the absorbed (and encapsulated) hydrocarbons and/or other chemicals to microbiologically decompose long before the coir material decomposes.

12.3 BIOACCUMULATIVE POTENTIAL

- It is not anticipated that this product will bioaccumulate or bioconcentrate significantly in the environment.

12.4 MOBILITY IN SOIL

- This product is not anticipated to be mobile in soil.

12.5 RESULTS OF PBT and vPvB ASSESSMENT

- No data available.

12.6 OTHER ADVERSE EFFECTS

- *Endocrine Disruptor Information:* No component is reported to be an endocrine disruptor.

12.7 ADDITIONAL ENVIRONMENTAL IMPACT INFORMATION

- SpillFix meets and exceeds Federal EPA leachate standards for hydrocarbon/petroleum products.
- SpillFix Passes the EPA's TCLP and TTLC testing.
- SpillFix encapsulates chemicals and will not leach or release back into the environment.

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13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

- *Waste Handling Recommendations:* Prepare, transport, treat, store, and dispose of waste product according to all applicable local, U.S. State and U.S. Federal regulations, the applicable Canadian standards, or the appropriate standards of the nations of the European Community.
- *Incineration:* Used SpillFix containing hydrocarbons can be incinerated in accordance with local regulations.

13.2 DISPOSAL CONSIDERATIONS

- *EPA RCRA Waste Code:* Not applicable
- *European Waste Code:* Not applicable.

14: TRANSPORT INFORMATION

14.1/14.2/14.3/14.4 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

- **Department Of Transportation Hazardous Materials Shipping Regulations**

<i>UN/NA Identification Number</i>	Not hazardous, per US DOT regulations.
<i>Proper Shipping Name</i>	SpillFix Industrial Organic Absorbent
<i>Hazard Classification</i>	Not applicable.
<i>Packing Group</i>	Not applicable.
<i>Label</i>	Not applicable.
<i>North American Emergency Response Guidebook (2012)</i>	Not applicable.
<i>Marine Pollutant Status</i>	No component is designated as a DOT Marine Pollutant.



- *Canadian Transportation Information* This product is NOT regulated by Transport Canada as dangerous goods under Canadian transportation standards.
- *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.

14.5 ENVIRONMENTAL HAZARDS

- None described, as related to transportation.

14.6 SPECIAL PRECAUTIONS FOR USERS

- Not applicable.

14.7 TRANSPORT IN BULK

- Not applicable.

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15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE.

• **Other Important U.S.. Regulations**

U.S. TSCA Inventory Status: All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

CERCLA Reporting Requirements Not applicable.

SARA Reporting Requirements Not applicable.

SARA Section 311/312 For Product Not applicable.

California Safe Drinking Water Act (Proposition 65) Status Not applicable.

• **International Regulations Canadian**

DSL/NDSL Inventory Status All ingredients of this product are listed or are excluded from inventory reporting requirements.

Canadian environmental Protection Act (CEPA) Priorities Substances Lists: The components of this product are not on the CEPA Priorities Substances Lists.

German Water Hazard Classification: 1 (low hazard to waters).

15.2: CHEMICAL SAFETY ASSESSMENT

- *Assessment* Chemical free natural organic material.

16: OTHER INFORMATION

16.1 INDICATION OF CHANGE.

- *Change Indicated:* Update of OSHA Hazard Communication Standard (29 CFR 1910.1200); Format changes.
- *Original Date of Issue* October 2013.
- *Dates of Updates* February 8, 2018.

16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- Safety Data Sheets For Component Products
- Regulations (EC) No 1907/2006, 1272/2008 & 453/2010 of the European Parliament and of the Council
- Federal OSHA Hazard Communication Standard: 29 CFR 1910.1200
- ESIS -European Chemical Substances Information System <http://esis.jrc.ec.europa.eu/>

16.3 CLASSIFICATION AND PROCEDURE USED TO DERIVE THE CLASSIFICATIONS FOR MIXTURES

- *Classification: Section 2* (Hazards Information) provides all relevant classification information used for this product. The assignments were based on data available for the component products, calculations, expert judgment, and weight of evidence.

16: OTHER INFORMATION (cont.)

16.4 ABBREVIATIONS AND ACRONYMS.

ALL SECTIONS: OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances. 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. EINECS: European Inventory of Existing Commercial Substances. SECTION 3: 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. 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; 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. EL: Exposure Limit (United Kingdom). Federal Republic of Germany (DFG)

Maximum Concentration Values in the Workplace (MAKs) 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. 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. Embryo-toxin: 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: LDxxor 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. TDxxor 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. NOAEL: No Observable Effect Level. 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. DSL/NDL: Canadian Domestic Substances and Non-Domestic Substances Lists.

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