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**SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION**

**Product Name:** 1315 Flo-Strip Paint Stripper

**Product Code:** B4440

**MSDS Date:** 8/26/2019

**Use:** This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

Chemisphere Corporation  
2101 Clifton Ave  
St. Louis, MO 63139

**General Information: 314-644-1300**

**CHEMTREC: 800-424-9300**

**Section 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****GHS Classification:**

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 1), H370

Specific target organ toxicity - repeated exposure (Category 2), H373

Specific target organ toxicity - single exposure (Category 3), Respiratory system, Central nervous system, H335, H336

Reproductive toxicity (Category 2), H361

Aspiration hazard (Category 1), H304

Carcinogenicity (Category 2), H351

**GHS Labeling**

**Symbol:**

**Signal Word:** Danger

**Hazard Statements:**

Highly flammable liquid and vapor

Toxic if swallowed.

Toxic if inhaled.

Toxic in contact with skin

Causes skin irritation.

Causes serious eye irritation

Causes damage to organs

May cause damage to organs through prolonged or repeated exposure

May cause respiratory irritation

May cause drowsiness or dizziness

Suspected of damaging fertility or the unborn child

May be fatal if swallowed and enters airways

Suspected of causing cancer

**Precautionary Statements:**

**Prevention:**

Do not breathe mist/vapors/spray.  
 Do not eat, drink or smoke when using this product.  
 Do not handle until all safety precautions have been read and understood.  
 Ground/bond container and receiving equipment.  
 Keep away from heat/sparks/open flames/hot surfaces-no smoking.  
 Keep container tightly closed.  
 Obtain special instructions before use.  
 Take precautionary measure against static discharge.  
 Use only non-sparking tools.  
 Use only outdoors or in a well-ventilated area.  
 Wash thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

Call a poison center/doctor if you feel unwell.  
 If exposed or concerned: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.  
 If on skin: wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse.  
 If skin irritation occurs: Get medical advice/attention.  
 If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting.  
 In case of fire: Use carbon dioxide, dry chemical powder, dry sand, limestone powder, or alcohol resistant foam to extinguish.

**Storage:**

Store in a well-ventilated place. Keep cool. Keep container tightly closed.  
 Store locked up.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Potential Health Effects:** See Section 11 for more information

This product contains carcinogens or potential carcinogens as listed by IARC, NTP, or ACGIH.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Environmental Effects:** See Section 12 for more information.

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Methanol CAS #67-56-1	1-50	Not avail	Not avail	200 ppm	250 ppm
2	Toluene CAS #108-88-3	1-50	200 ppm	Not Avail	20 ppm	Not Avail
3	Acetone	1-50	750 ppm	Not Availab	500	Not Availab

	CAS #67-64-1			le	ppm	le
4	Dichloromethane CAS #75-09-2	1-50	25 ppm (action level 12.5 ppm)	125 ppm	50 ppm	Not Avail

#### Section 4: FIRST AID MEASURES

##### Emergency first aid procedures by route of exposure:

- Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Medical care must emphasize the control of acidosis and the use of intravenous bicarbonate has been lifesaving. Evidence is good that treatment of methanol absorption is enhanced through the administration of ethanol, which should be given to produce a blood level of at least 0.1%. Ethanol diminishes the production of toxic metabolites of methanol. Blood methanol level of 50 mg/100mL is an indication for hemodialysis, which has improved the prognosis of methanol intoxication. Methanol is often confused with beverage alcohol (ethylalcohol). Care must be taken to prevent its ingestion, the most frequent cause of methanol poisoning. Prevent aspiration of vomit. Turn victim's head to the side. Do not induce vomiting. If the material is swallowed, get medical attention or advice.
- Skin:** Wash off for 20 minutes. Remove contaminated clothing, and any extraneous chemical.
- Eyes:** Immediately flush eyes with water for at least 20 minutes while holding eyelids open. Remove contact lenses. Get medical attention if irritation persists.

**Note to physician:** In case of ingestion or massive inhalation, observe victim as an inpatient because of slow metabolism causes latent period of 24 hours between exposure and acidosis and blindness.

#### Section 5: FIRE FIGHTING MEASURES

**Flash Point:** 54°C (129.2°F)  
**Lower Explosion Limit: (Methanol)** 36.5 %  
**Upper Explosion Limit: (Methanol)** 6%  
**Auto Ignition Temp (Methanol):** 385°C

##### Suitable Extinguishing Media:

Use methods appropriate for the surrounding fire. Consider carbon dioxide, dry chemical powder, dry sand, limestone powder, or alcohol resistant foam.

**Products of Combustion:** Incomplete combustion may form carbon monoxide. Fire or intense heat may cause violent rupture of packages. Flash back possible over considerable distance. May form explosive mixtures in air. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes. In the event of fire, cool tanks with water spray.

##### Fire Fighting Equipment/Instructions:

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for fire-fighting if necessary

HAZARD	HMIS	NFPA
Toxicity	2	2
Fire	2	2
Reactivity	0	0

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Protection:** For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Special Properties:** Flammable Liquid! This material releases vapors at or below ambient temperatures. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. If container is not properly cooled, it can rupture in the heat of a fire.

**Environmental Precautions:** Prevent discharge to open bodies of water, municipal sewers, and watercourses.

**Method for Containment:** Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth. Control runoff and isolate discharged material for proper disposal. Approach release from upwind.

**Methods for Clean-up:** Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container.

## Section 7: HANDLING AND STORAGE

### Handling:

Keep away from heat, sparks and flame. Use only with adequate ventilation.

To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

### Storage:

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep away from oxidizers.

## Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Personal Protective Equipment (PPE)

**Respiratory Protection:** Wear appropriate respirator when ventilation is inadequate.

**Eye/Face Protection:** Splash proof chemical goggles and face shield.

**Hand Protection:** Fluorinated rubber gloves, impervious gloves, the breakthrough time of the selected glove(s) must be greater than the intended use period.

**Body:** Avoid skin contact. If product comes in contact with clothing, immediately remove soaked clothing and shower. Wear protective suit.

### Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

See section 3 for exposure limits.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance, State</b>	Clear liquid
<b>Color</b>	Colorless
<b>Odor</b>	Not Available
<b>pH</b>	Not Available
<b>Vapor Density</b> (Dichloromethane)	2.93 (air=1)
<b>Boiling Point</b> (Dichloromethane)	39.8°C
<b>Vapor Pressure</b> (Dichloromethane)	400 mmHg at 24°C
<b>Melting Point</b> (Dichloromethane)	-96.7°C
<b>Freezing Point</b>	Not Available
<b>Flash Point</b> (See Section 5)	
<b>Flammability Properties</b> (See section 5)	
<b>Solubility Water</b> (Dichloromethane)	200 g/L at 20°C
<b>Density</b> (Dichloromethane)	1.3254-1.3258 g/cm <sup>3</sup> at 20°C
<b>Evaporation Rate</b>	Not Available
<b>Octanol/Water partition coefficient (Kow)</b> (Dichloromethane)	1.25
<b>Auto-ignition temperature:</b>	Not Available
<b>Decomposition temperature:</b>	Not Available

## Section 10: STABILITY AND REACTIVITY

**Stability:** This material is considered stable at ambient temperatures 70°C (21°C).

**Condition to Avoid:** Flames, sparks, electrostatic discharge, heat and other ignition sources.

**Incompatible Materials:** This product reacts with reactive metals (eg. Sodium, calcium, zinc etc), materials reactive with hydroxyl compounds, and oxidizing agents.

**Hazardous Decomposition:** Upon decomposition, this product evolves carbon monoxide, carbon dioxide, aldehydes, and flammable hydrocarbon fragments (eg acetylene).

**Hazardous Reactions:** This product will not undergo polymerization.

## Section 11: TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS:

#### Component Analysis LD50

Methanol (67-56-1)

LD<sub>50</sub>: Oral, Mouse - 7300 mg/Kg

LD<sub>50</sub>: Oral, Rabbit - 14200 mg/Kg

LD<sub>50</sub>: Oral, Rat - 5628 mg/Kg

LD<sub>50</sub>: Skin, Rabbit - 15800 mg/Kg

LC<sub>50</sub>: Inhalation, Rat - 64000 ppm

Toluene (108-88-3)

Inhalation LC<sub>50</sub> Rat 12.5 mg/L 4 h;

Inhalation LC<sub>50</sub> Rat >26700 ppm 1 h;

Oral LD<sub>50</sub> Rat 636 mg/kg;

Dermal LD<sub>50</sub> Rabbit 8390 mg/kg;

Dermal LD<sub>50</sub> Rat 12124 mg/kg

Dichloromethane (75-09-2)  
Oral LD50 Rat >2000 mg/kg;  
Inhalation LC50 Rat 76000 mg/m<sup>3</sup> 4 h  
Skin - rabbit - Skin irritation - 24 h  
Eyes - rabbit - Mild eye irritation - 24 h

Acetone (67-64-1)  
Oral LD50 Rat: 5800 mg/kg  
LC50 Inhalation - rat - 8 h - 50,100 mg/m<sup>3</sup>  
LD50 Dermal - guinea pig - 7,426 mg/kg  
Skin - rabbit - Mild skin irritation - 24 h  
Eyes - rabbit - Eye irritation - 24 h

## CHRONIC EFFECTS:

### Component

Methanol (67-56-1)

**Carcinogenic Effects:** Not available

**Mutagenic Effects:** Laboratory experiments have resulted in mutagenic effects.

**Teratogenic Effects:** Chronic exposure may cause reproductive disorders and teratogenic effects.

**Developmental Toxicity:** Chronic exposure may cause reproductive disorders.

**Target Organs:** Eyes, CNS, skin, GI tract, and respiratory system **Inhalation:** An irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of over-exposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. A person may get better but then worse up to 30 hours later. **Ingestion:** Toxic. Symptoms similar to those for inhalation, but severity and speed of appearance may be greater. May be fatal or cause blindness. Usual fatal dose: 100 – 125 ml. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. **Skin Contact:** Methyl Alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur in harmful amounts; symptoms may parallel inhalation exposure. **Eye Contact:** Irritant, characterized by a burning sensation, redness, tearing, inflammation, possible corneal injury, painful sensitization to light. Continued exposure may cause lesions. **Chronic Exposure:** Marked impairment of vision has been reported. Repeated or prolonged skin contact may cause dermatitis. Chronic exposure may cause reproductive disorders and teratogenic effects. Laboratory experiments have resulted in mutagenic effects. **Aggravation of Pre-Existing Conditions:** Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

Toluene (108-88-3)

**Carcinogenic Effects:** A4 - Not classifiable for human or animal by ACGIH.

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Not Available

**Developmental Toxicity:** Reproductive effects in experimental animals and in long term chemical abuse situations.

**Target Organs:** Long-term overexposure to toluene has been associated with impaired color vision. Also, long-term overexposure to toluene in occupational environments has been associated with hearing damage. Skin, respiratory system, Central nervous system, Heart, blood, kidneys, lungs, liver, mucous membrane, brain, eyes, lens, or cornea. **Skin:** May cause moderate skin irritation. Not expected to be a sensitizer. **Inhalation:** Signs of eye, throat, and respiratory tract irritation (cough and difficulty breathing), CNS depression (fatigue, dizziness, headache, collapse, coma and death) and possible cardiac sensitization may occur after exposure to high vapor concentrations. **Eye:** Moderate eye irritant. Effects of eye irritation are reversible. **Ingestion:** Ingestion may cause discomfort and irritation of the gastrointestinal tract and CNS depression (fatigue, dizziness, collapse, coma and death). Aspiration into the lung may cause fatal chemical pneumonitis. May lead to potentially fatal cardiac sensitization.

Dichloromethane (75-09-2)

**Carcinogenic Effects:** NTP – reasonably anticipated to be a human carcinogen.

IARC – Possible carcinogen 2B

**Mutagenic Effects:** Genotoxicity in vivo – rat – Oral DNA Damage

**Teratogenic Effects:** Has been toxic to the fetus in lab animals at doses toxic to the mother.

**Developmental Toxicity:** Not available

**Target Organs:** Skin, CVS, eyes, CNS (in animals: lung, liver, salivary, and mammary glands tumors)

**INHALATION:** Respiratory tract irritation and central nervous system depression with symptoms of headaches, dizziness, nausea, unconsciousness and even death in extreme cases. **SKIN:** Irritation, Burn (immediately remove wet clothing) **EYES:** Irritation **INGESTION:** Gastrointestinal tract irritation, nausea, vomiting and diarrhea. Possible chemical pneumonia if liquid is aspirated into lungs.

Acetone (67-64-1)

**Carcinogenicity:** ACGIH A4 – Not Classifiable as a Human Carcinogen

**Neurotoxicity:** This product contains Acetone, a central nervous system target.

**Mutagenicity:** No information available for product.

**Reproductive:** Prolonged skin contact may defat the skin and produce dermatitis in a study of pregnant rats and mice exposed to acetone vapor during 6-19 of gestation, slight developmental toxicity was observed. Reports of other reproductive effects of acetone include observations of testicular effects and changes of sperm quality in rats.

**Developmental:** No information available for product.

**Target Organs:** Acetone can target the respiratory system, eyes, CNS, kidneys, hematology. Narcosis; CNS depression; eye, nose throat, and skin irritation. Harmful if swallowed or inhaled. Can cause CNS depression, drowsiness, narcosis, or asphyxiation. **Skin Contact:** Repeated exposure may cause skin dryness or cracking in human volunteers, topical application of acetone for 30 to 90 minutes produced considerable skin damage with high degree restoration after 72 hours. **Eye contact:** Can cause severe eye irritation. **Inhalation:** Health effects reported in humans caused by inhalation include increase in visual reaction time and decrease in dual response task at 250 ppm; mucous membrane irritation, heavy eyes, headache, and general weakness accompanied by blood changes at 500 ppm; chronic inflammation of airways, stomach and duodenum at 1000 ppm; and severe toxic effects at 4000 ppm. Acetone is readily absorbed into blood stream. **Ingestion:** Symptoms of ingestion include nausea, vomiting, gastric hemorrhage, sedation, respiratory depression, ataxia, and paresthesia.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Methanol (67-56-1)

EC50 (48 h) : 13,200 mg/l Species : Rainbow trout (*Oncorhynchus mykiss*).

EC50 (48 h) : 16,000 mg/l Species : Bluegill sunfish (*Lepomis macrochirus*).

EC50 (48 h) : > 10,000 mg/l Species : Daphnia

**Ecotoxicity:** Toluene (108-88-3)

96 Hr EC50 *Pseudokirchneriella subcapitata*: >433 mg/L;

72 Hr EC50 *Pseudokirchneriella subcapitata*: 12.5 mg/L [static] mg/L [flow-through] (1 day old);

96 Hr LC50 *Pimephales promelas*: 12.6 mg/L [static];

96 Hr LC50 *Oncorhynchus mykiss*: 5.89-7.81 mg/L [flowthrough];

96 Hr LC50 *Oncorhynchus mykiss*: 14.1- 17.16 mg/L [static];

96 Hr LC50 *Oncorhynchus mykiss*: 5.8 mg/L [semi-static];

96 Hr LC50 *Lepomis macrochirus*: 11.0-15.0 mg/L [static];

96 Hr LC50 *Oryzias latipes*: 54 mg/L [static];

96 Hr LC50 *Poecilia reticulata*: 28.2 mg/L [semi-static];

96 Hr LC50 *Poecilia reticulata*: 50.87-70.34 mg/L [static]

48 Hr EC50 *Daphnia magna*: 5.46 - 9.83 mg/L [Static];

48 Hr EC50 *Daphnia magna*: 11.5 mg/L

**Ecotoxicity:** Dichloromethane (75-09-2)

48 Hr LC50 *Eisenia foetida*: 0.3 mg/cm<sup>2</sup> [filter paper]

48 Hr LC50 *Eisenia foetida*: 304 mg/cm<sup>2</sup> [filter paper]

96 Hr EC50 *Pseudokirchneriella subcapitata*: >500 mg/L

72 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L  
96 Hr LC50 Pimephales promelas: 140.8-277.8 mg/L [flow-through];  
96 Hr LC50 Pimephales promelas: 262-855mg/L [static];  
96 Hr LC50 Lepomis macrochirus: 193 mg/L [static];  
96 Hr LC50 Lepomis macrochirus: 193 mg/L [flow-through]  
48 Hr EC50 Daphnia magna: 1532 - 1847 mg/L [Static];  
48 Hr EC50 Daphnia magna: 190 mg/L

**Ecotoxicity:** Acetone (67-64-1)

96 hour LC50 Oncorhynchus mykiss: 5540 mg/L (static)  
96 hour LC50 Pimephales promelas 6210 mg/L [flow through]  
96 hour LC50 Lepomis macrochirus: 8300 mg/L [static]  
15 min EC50 Photobacterium phosphoreum: 14,500 mg/L  
48 Hr EC50 water flea: 0.0039 mg/L  
48 hour EC50 water flea: 12,700 mg/L [static]  
48 hour EC50 Daphnia magna: 12,600 mg/L

### **Section 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state, and federal regulations.

### **Section 14: TRANSPORT INFORMATION**

**Proper Shipping Name:** Flammable Liquids, Toxic, n.o.s. (contains Acetone, Dichloromethane)

**Hazard Class:** 3, 6.1

**Identification No.:** UN1992

**Packing Group:** II

**Label:** Poison, Flammable

### **Section 15: REGULATORY INFORMATION**

**TSCA Inventory** This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory. This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

**SARA 302/304** The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components listed.

**SARA 313:** Methanol (CAS #67-56-1), Toluene (CAS #108-88-3), Dichloromethane (CAS #75-09-2)

**CERCLA** The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Toluene [CAS No.: 108-88-3] RQ = 1000 lbs. (453.6 kg), Dichloromethane [75-09-2] RQ = 1,000 lb, Methanol [CAS No. 67-56-1] RQ = 5,000, Acetone [CAS No. 67-64-1] RQ = 5,000.

**SARA 311/312 Hazard** The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard



**Additional Regulatory  
Remarks**

Federal Hazardous Substances Act, related statutes, and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500.14(b)(3) and 1500.83(a)(13): This product contains Toluene which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by children. Precautionary label dialogue should display the following: **DANGER: Contains Toluene! Harmful or fatal if swallowed! Call Physician Immediately. Vapor Harmful! KEEP OUT OF REACH OF CHILDREN!**  
**California Proposition 65**

**California Prop 65:** Toluene developmental hazard, Dichloromethane cancer hazard, Methanol developmental hazard

**Section 16: OTHER SUPPLEMENTAL INFORMATION**

**Prepared by: Chemisphere Corp. on 1/27/15**

**Disclaimer:**

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

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