

**SDS# 990**  
**Date: February 12, 2018**

**Total Pages: 5**

## Flash™ Detect Inject

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product Name:** Flash™ Detect Inject All Systems up to 6 Tons  
**Catalog Number:** 990  
**Product Class:** HVAC/R refrigerant additive  
**Manufactured by:** DiversiTech Corporation  
6650 Sugarloaf Parkway  
Duluth, GA, 30097  
**Information Phone No.:** 1+678.542.3600  
**EMERGENCY Phone No.:** 1 800.255.3924 Chem-Tel (Chemical Emergencies)

### SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

**GHS Classification:**

Flammable liquids: Category 3

**Label Elements:**



**Signal Word** Danger

**Hazard Statement(s)**

Flammable liquid and vapor

**Precautionary statement(s)**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear protective gloves and eye protection.

In case of fire: Use carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray to extinguish.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

**Other hazards:**

None known.

### SECTION 3. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS No.	Composition, wt%
Triethylorthoformate	122-51-0	5-15

Remaining components of this product are not classified as hazardous under WHMIS 2015.

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### SECTION 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Inhalation**

Remove person to fresh air. Give artificial respiration if not breathing. Obtain medical attention.

**Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Skin Contact**

Immediately wash skin with soap and copious amounts of water.

**Eye Contact**

Remove contact lenses and immediately flush eyes with copious amounts of water for at least 15 minutes.

**Acute and Delayed Symptoms**

None known

**Special Treatment Needed**

Only as above.

### SECTION 5. FIREFIGHTING MEASURES

**Extinguishing media**

DO NOT USE WATER STREAM. Use carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.

**Special hazards arising from the substance or mixture**

Vapor may travel considerable distance to source of ignition and flash back. Carbon dioxide and monoxide form under fire conditions.

**Advice for firefighters**

Wear self contained breathing apparatus for fire fighting as necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Clear the area of unnecessary personnel. Shut off all sources of ignition. No smoking. Wear chemical-resistant gloves and chemical safety goggles. Ensure adequate ventilation. Avoid breathing fumes or vapors.

**Environmental precautions**

Since the product contains colourant, avoid runoff to sewers and waterways.

**Methods and materials for containment and cleaning up**

Cover spill with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools. Treat or dispose of waste material in accordance with all local, provincial, and federal requirements.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

Avoid breathing vapor. Keep away from heat, sparks, and open flame. No smoking.

**Conditions for safe storage**

This product should be stored and handled in closed equipment to keep vapors in and moisture out. When this is done, general room ventilation is expected to be satisfactory. Keep away from sparks, open flame or other sources of ignition.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters**

This product contains no components with occupational exposure limits.

**Engineering Controls**

General room ventilation is expected to be sufficient for use of the product.

**Protective Equipment**

Wear chemical-resistant gloves and chemical safety goggles or safety glasses with side shields and chemical protective clothing.

**Hygiene**

Handle in accordance with good industrial hygiene and safety practices. Wash hands after use.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear green liquid.
<b>Odor</b>	Ethereal
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Freezing point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	58°C (136°F)
<b>Evaporation rate</b>	No data available
<b>Flammability or explosive limits</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Specific Gravity</b>	0.97 @ 25°C (77°F)
<b>Water Solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available

### SECTION 10. STABILITY AND REACTIVITY

#### Reactivity

Reacts with water.

#### Chemical stability

Stable under conditions of recommended storage.

#### Possibility of hazardous reactions

None likely

#### Conditions to avoid

Heat, sparks, and open flame

#### Incompatible materials

Moisture, acids, strong oxidizing agents

#### Hazardous decomposition products

In combustion, forms carbon dioxide/ monoxide.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on the likely routes of exposure

Inhalation: May be harmful if inhaled.

Ingestion: Not a likely route of exposure. May be harmful if swallowed.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

#### Symptoms related to physical, chemical and toxicological characteristics

Inhalation: Symptoms of exposure may include headache and dizziness.

Ingestion: Irritation of mucous membranes.

Skin Contact: Repeated or prolonged exposure may cause skin irritation.

Eye Contact: Symptoms may include watering or redness.

#### Delayed and immediate effects

No additional information

#### Chronic effects from short-term and long-term exposure

No information

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### SECTION 11. TOXICOLOGICAL INFORMATION (cont.)

#### Numerical measures of toxicity

The toxicological properties of this product have not been investigated. Information for the triethylorthoformate component is provided below.

#### Acute toxicity

**Triethylorthoformate:** LD50 Oral - rat - 7060 mg/kg  
LD50 Dermal - rabbit - 17820 mg/kg  
LD50 Dermal - guinea pig - >8910 mg/kg

#### Skin corrosion/irritation

**Triethylorthoformate:** Skin - rabbit - Mild skin irritation - 24 h

#### Serious eye damage/irritation

**Triethylorthoformate:** Eyes - rabbit - No eye irritation - OECD Test Guideline 405

#### Respiratory or skin sensitization

No data available

#### Carcinogenicity

No components of this product are listed as carcinogens by IARC or ACGIH.

### SECTION 12. ECOLOGICAL INFORMATION

No data are available for the ecological effects of this product; information on triethylorthoformate is provided below.

**Toxicity to fish:** Triethylorthoformate  
LC50 - 48 h  
Species: Leuciscus idus  
Result: 592 mg/l

**Toxicity to other organisms:** Triethylorthoformate  
EC50 - 48 h  
Species: Daphnia magna  
Result: 617 mg/l

#### Persistence and degradability

Triethylorthoformate: Readily biodegradable.

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Observe all local, provincial, and federal requirements.

#### Contaminated packaging

Dispose of as product.

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### SECTION 14. TRANSPORTATION INFORMATION

#### TDG/IATA/IACO/IMDG

**Shipping Name:** FLAMMABLE LIQUID, N.O.S. (ethyl orthoformate)

UN #: 1993

Class: 3

Packing Group: III

### SECTION 15. REGULATORY INFORMATION

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:** SARA Section 311/312 (40 CFR 370)

**Immediate Hazard** – Yes, Flammable liquids category 3

**Delayed Hazard** – No

**Fire Hazard** – Yes, Category 3

**Pressure Hazard** – No

**Reactivity Hazard** – Low risk for hazardous reactions

#### **SARA Section 313 (40 CFR 372) component**

This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

#### **State Regulations – California Proposition 65:**

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under at levels which would be subject to the proposition.

#### **Toxic Substances Control Act (TSCA):**

All components of this product are included on the TSCA inventory.

#### **International Regulations**

##### **Canadian Environmental Protection Act (DSL)**

All products are on the Canadian Domestic Substance List (DSL)

##### **Canadian Workplace Hazardous Materials Information System (WHMIS)**

Category 3 fire hazard

### SECTION 16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

*All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.*