

# SAFETY DATA SHEET

## 981 SUPER CHANGE

Revision Date: May 7, 2015

Version: 2.0

Supersedes: April 7, 2014

### Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

**Product Name:** 981 Super Change

**Part Numbers:** 981, 981B

**Product Class:** HVAC and A/C refrigeration additive

**Manufacturer:** Cliplight Manufacturing

961 Alness Street

Toronto, ON M3J 2J1, Canada

**email:** sales@cliplight.com

**Telephone:** +1 416 736 9036

**Emergency Telephone:** +1 613 996 6666 (Canutec)

### Section 2 – Hazards Identification

#### GHS Classification

Flammable liquids: Category 3

Skin irritation: Category 3

#### Label elements:



Warning

#### Hazard statements:

H226 Flammable liquid and vapour

H316 Causes mild skin irritation

#### Precautionary statements:

P280 Wear protective gloves and eye protection.

P332 + P313 If skin irritation occurs: Get medical attention.

#### Other hazards:

None known.

### Section 3 – Composition/Information on Ingredients

| Ingredient Name  | CAS No.    | EC No.    | Composition, wt% |
|--|------------|-----------|------------------|
| Triethylorthoformate   | 122-51-0   | 204-550-4 | 10 - 30          |
| <i>N</i> -phenyl-1,1,3,3-tetramethylbutyl-naphthalen-1-amine | 68259-36-9 | 269-527-3 | 1 - 5            |

Remaining components of this product are not classified as hazardous under the GHS, 29 CFR 1910.1200, WHMIS 2015, or (EC) No 1272/2008.

### Section 4 – First-Aid Measures

**Inhalation**

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

**Eye Contact**

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

**Skin Contact**

Immediately wash skin with soap and copious amounts of water. If irritation persists, obtain medical attention.

**Ingestion**

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

**Acute and Delayed Symptoms**

None known

**Special Treatment Needed**

Only as above.

### Section 5 – Fire-Fighting Measures

**Extinguishing media**

DO NOT USE WATER. Use carbon dioxide, dry chemical powder or foam.

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

Carbon dioxide and monoxide form under fire conditions.

**Advice for firefighters**

Wear self contained breathing apparatus for fire fighting as necessary. Use water spray to cool unopened containers. Vapour may travel considerable distance to source of ignition and flash back.

### Section 6 – Accidental Release Measures

**Personal precautions**

Wear chemical-resistant gloves and chemical safety goggles or safety glasses with side shields. Avoid breathing vapours. Ensure adequate ventilation.

**Environmental precautions**

Shut off all sources of ignition. Vapours are heavier than air and can accumulate. 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, state, provincial, and national requirements.

### Section 7 – Handling and Storage

**Precautions for safe handling**

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

**Conditions for safe storage**

Keep container closed. Keep away from heat, sparks, and open flame. This product is sensitive to moisture.

### Section 8 – Exposure Controls/Personal Protection

#### Control Parameters

This product contains no components with occupational exposure limits.

#### Engineering Controls

Use non-sparking tools. Ensure good ventilation.

#### Protective Equipment

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

#### Hygiene

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

### Section 9 – Physical and Chemical Properties

|   |  |
|---|--|
| Appearance                                | Clear liquid; colourless or light amber. |
| Odour                                     | Ethereal                                 |
| Odour threshold                           | No data available                        |
| pH  | No data available                        |
| Freezing point                            | No data available                        |
| Boiling point                             | No data available                        |
| Flash point                               | 35°C (95°F)                              |
| Evaporation rate                          | No data available                        |
| Flammability or explosive limits          | No data available                        |
| Vapour pressure                           | No data available                        |
| Vapour density                            | No data available                        |
| Specific Gravity                          | 0.93 @ 25°C (77°F)                       |
| Water Solubility                          | No data available                        |
| Partition coefficient:<br>n-octanol/water | No data available                        |
| Auto-ignition temperature                 | No data available                        |
| Decomposition temperature                 | No data available                        |
| Viscosity                                 | 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**

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

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

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

**Reproductive toxicity**

No data available

**Specific target organ toxicity**

No data available

**Aspiration hazard**

No data available

**Potential Health Effects**

Inhalation: May be harmful if inhaled.

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

**Section 12 – Ecological Information**

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Section 13 – Product Disposal**

**Product**

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

**Contaminated packaging**

Dispose of as product.

**Section 14 – Transport Information**

**DOT/IMDG/IACO/IATA/TDG**

**DOT:** Consumer Commodity, ORM-D

**OCEAN (IMDG):** UN2524, Ethyl Orthoformate), Class 3, PG III, Ltd Qty, EMS-No: F-E, S-D

**AIR (IATA):** UN2524, Ethyl Orthoformate), Class 3, PG III

**Section 15 – Regulatory Information**

All components of this product are listed in the U.S. Toxic Substances Control Act (TSCA) Inventory.

All components of this product are on the Canadian Domestic Substances List (DSL).

All components of this product are on or in compliance with the Australian Inventory of Chemical Substances (AICS) Inventory.

A chemical safety assessment has not been carried out for this product.

**Section 16 – Other Information**

**HMIS Classification**

|               |   |
|---------------|---|
| Health Hazard | 0 |
| Flammability  | 3 |
| Reactivity    | 0 |

**Notes to this revision**

This version 2.0 (May 7, 2015) has been updated from version 1.0 of April 7, 2014 to conform to the requirements of the GHS, OSHA Hazard Communications Standard 2012, WHMIS 2015 and (EU) No 453/2010 from June 1, 2015.

No changes have been made to the classification of the product and no substantive changes have been made to the description of the product or to instructions for its safe use, transportation, handling and storage.

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.