

SAFETY DATA SHEET

973KIT & 977KIT DRY R

Revision Date: May 6, 2015
Supersedes: February 26, 2014

Version: 1.3

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

Product Name: 973KIT & 977KIT DRY R
Part Numbers: 973KIT, 977KIT
Product Class: HVAC and 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/eye protection/face protection.
P333 + 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	100

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

Use carbon dioxide, dry chemical powder, water spray or alcohol-resistant foam.

Special hazards arising from the substance or mixture

Carbon dioxide/monoxide

Advice for firefighters

Self-contained breathing apparatus and protective clothing as required.
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

In the opened canister, this product is sensitive to moisture.

Section 8 – Exposure Controls/Personal Protection

Control Parameters

This product does not have a listed occupational exposure limit value.

Engineering Controls

Use non-sparking tools.

Protective Equipment

Use protective gloves and suitable protective clothing. Wear safety glasses with side shields or goggles.

Hygiene

Wash hands thoroughly after handling.

Section 9 – Physical and Chemical Properties

Appearance	Clear colourless liquid
Odour	Ethereal
Odour threshold	No data available
pH	No data available
Melting point/freezing point	-76°C (-105°F)
Boiling point	146°C (295°F)
Flash point	35°C (95°F)
Evaporation rate	No data available
Flammability or explosive limits	No data available
Vapour pressure	3.9 hPa (2.9 mmHg) at 20°C (68°F)
Vapour density	5.1 (Air = 1)
Density	0.89 g/cm ³ @ 25°C (77°F)
Solubility	No data available
Partition coefficient: 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 recommended storage conditions.

Possibility of hazardous reactions

Unlikely

Conditions to avoid

Moisture (except in product application), heat, flames and sparks

Incompatible materials

Acids, strong oxidizing agents

Hazardous decomposition products

Carbon monoxide/dioxide on combustion

Section 11 – Toxicological Information

The toxicological properties of this product have not been fully investigated.

Acute toxicity

Oral LD50 rat: 7060 mg/kg

Skin LD50 rabbit: 20 ml/kg

Skin corrosion/irritation

rabbit mild irritation 6 24 h

Serious eye damage/irritation

rabbit no irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

Not identified as a carcinogen by IARC.

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

No data are available for the ecological effects of this product.

Aquatic 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 – Disposal Considerations

Product

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is flammable. Observe all local, state, provincial, and national requirements.

Contaminated packaging

Dispose of as product.

Section 14 – Transport Information

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).

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

This version 1.3 (May 6, 2015) has been updated from version 1.2 of February 26, 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.