Material Safety Data Sheet

Date of Preparation: October 27, 2008

Section 1 – Chemical Product and Company Identification

Product Name: Super Seal Total 2™
Part Number(s): 972KIT
Product Class: HVAC and refrigeration additive
Manufacturer: Cliplight Manufacturing
961 Alness Street
Toronto, ON M3J 2J1, Canada
Telephone: +1 416 736 9036 **Emergency Telephone:** +1 416 736 9036

Section 2 – Composition/ Information on Ingredients

Ingredient Name	CAS No.	EC No.	Composition, wt%
Vinyltrimethoxysilane	2768-02-7	220-449-8	5-10
N-Beta(aminoethyl)-gamma-aminopropyltrimethoxysilane	1760-24-3	217-164-6	5-10
Methyltrimethoxysilane	1185-55-3	214-685-0	3-5
Proprietary Ingredients			

Section 3 – Hazards Identification

Primary Entry Routes: Ingestion, inhalation, skin, and eye

Effects of Overexposure:

Swallowing: May be harmful if swallowed.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. (R37)
Skin: May cause skin irritation. May be harmful if absorbed through the skin. (R38)
Eye Contact: Causes eye irritation. May cause redness and swelling of the conjunctiva and eventual corneal injury. (R36, R41)

See Section 15 for risk and safety phrases.

Section 4 – Emergency and First Aid Procedures

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.
Ingestion: Wash out mouth with water provided person is conscious. Call a physician.
Skin Contact: Immediately wash skin with soap and copious amounts of water. If irritation persists or if contact has been prolonged, obtain medical attention.
Eye Contact: Remove contact lenses and immediately flush eyes with copious amounts of water for at least 15 minutes. Obtain medical attention.

Note to Physician: One can of this product reacts with moisture in the acid contents of the stomach to form less than 3 g of methanol.

Section 5 – Fire Fighting Measures

Flash Point: 33°C
Flash Point Method: Pensky-Martens Closed Cup
Extinguishing Media: DO NOT USE WATER. Use carbon dioxide, dry chemical powder, or appropriate foam.
Special Protective Equipment: Self-contained breathing apparatus and protective clothing.
Unusual Fire or Explosion Hazards: Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air. Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

Section 6 – Spill, Leak, and Disposal Procedures

Shut off all sources of ignition. Avoid runoff to sewers or waterways. Avoid contact with liquid and vapors. Wear chemical-resistant gloves and chemical safety goggles. Cover spill with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling: Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage: Keep container closed. Keep away from heat, sparks, and open flame. This product is sensitive to moisture.
Ventilation: 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

Section 8 – Exposure Controls / Personal Protection

Protective Equipment: Use protective gloves; recommended order of use is 4H, butyl, neoprene, nitrile (NBR) and PVC-coated. Use eye protection and chemical protective clothing.
Engineering Controls: Have eye bath and safety shower available. Use non-sparking tools.
General: Wash thoroughly after handling. Wash contaminated clothing before re-use.

Section 9 – Physical and Chemical Properties

Flash Point: 33°C
Physical State: Clear liquid
Appearance/Odor: Clear, pale yellow/etheral odor
Specific Gravity (@ 20°C): 0.95
Vapor Density (Air=1): Heavier than air

Section 10 – Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Incompatibilities & Conditions to Avoid: Moisture, acids, strong oxidizing agents.

Section 11– Toxicological Information

See section 3 for routes of exposure and health effects.

Oral LD50 rat: Trimethoxyvinylsilane >7300 mg/kg; N-(3-(trimethoxysilyl)propyl)ethylenediamine>2000 mg/kg
Skin LD50 rabbit: Trimethoxyvinylsilane >3400 mg/kg; N-(3-(trimethoxysilyl)propyl)ethylenediamine >2000 mg/kg

See section 3 for routes of exposure and health effects.

The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

Section 12– Ecological Information

No data are available on this product.
This product is not readily biodegradable. Avoid runoff to sewers and waterways.

Section 13– Product Disposal

See section 6.

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 highly flammable. Observe all federal, state, and local environmental regulations.

Section 14 –Transport Information

IMDG/IACO/IATA
Shipping Name: FLAMMABLE LIQUID, N.O.S. (Trimethoxyvinylsilane)
UN #: 1993
Class: 3
Packing Group: III

Section 15 –Regulatory Information

Hazard Symbol: Xi: Irritant
Risk Phrases: R10 – Flammable
R36/37/38 – Irritating to eyes, respiratory system and skin
R41 – Risk of serious damage to eyes

Safety Phrases: S16: Keep away from sources of ignition – no smoking.
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 – wear suitable protective clothing, gloves and eye/face protection
S24/25 – avoid contact with skin and eyes

Section 16 –Other Information

Risk Phrases: R10 – Flammable
R36/37/38 – Irritating to eyes, respiratory system and skin
R41 – Risk of serious damage to eyes