



Material Safety Data Sheet

Date of Preparation: October 23, 2007

Section 1 – Chemical Product and Company Identification

Product Name: SUPER SEAL PRO™; SUPER SEAL PREMIUM™; TARGET™

Part Numbers: 940KIT; 946KIT; 941

Product Class: Automotive a/c additives

Manufacturer: Ciplight Manufacturing
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Toronto, ON M3J 2J1, Canada

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Section 2 – Composition/ Information on Ingredients

Ingredient Name	CAS Number	EC No.	Composition, wt%
Trimethoxyvinylsilane	2768-02-7	220-449-8	10-30
2-methylpropan-1-ol	78-83-1	201-148-0	10-30
N-(3-(trimethoxysilyl)propyl) ethylenediamine	1760-24-3	217-164-6	10-30
Trimethoxymethylsilane	1185-55-3	214-685-0	1-5
4-methylpentan-2-one	108-10-1	203-550-1	1-5

Section 3 – Hazards Identification

Primary Entry Routes: Skin, inhalation and ingestion

Target Organs: Kidneys, liver, central nervous system

Effects of Overexposure:

Swallowing: May be harmful if swallowed. (R22)

Inhalation: May be irritating to mucous membranes and upper respiratory tract. (R37)

Skin: Causes skin irritation. (R38)

Eye Contact: May cause severe eye irritation. (R36)

Chronic Effects: May cause dermatitis. Symptoms of overexposure may include burning sensation, coughing and wheezing, headache or nausea.

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.

Eye Contact: Remove contact lenses and immediately flush eyes with water and continue washing for several minutes. Obtain medical attention.

Skin Contact: Remove contaminated clothing. Wash with soap and copious amounts of water.

Ingestion: If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention without delay. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.

Note to Physician: This product reacts with moisture in the acid contents of the stomach to form methanol.

Section 5 – Fire Fighting Measures

Flash Point: 20°C

Method: Closed Cup

Extinguishing Media: CO2/Dry chemicals/Foam

Special Protective Equipment: Self-contained breathing apparatus and protective clothing

Unusual Fire or Explosion Hazards: Vapors from this product may travel or be moved by air currents and ignited by pilot light or other flames and ignition sources at locations distant from product handling point.

When this material is exposed to extreme heat, as in a fire, it may polymerize and rupture a closed container. Burning can produce oxides of carbon, nitrogen and silicon

Section 6 – Spill, Leak, and Disposal Procedures

Avoid runoff to sewers or waterways. Soak up small spills with absorbent material. Larger spills should be collected for disposal. Extinguish and do not turn on any ignition source until the area is determined to be free from fire or explosion hazard. Avoid contact with eyes. Wear suitable protective equipment. Avoid contact with liquid and vapors.

Section 7 – Handling and Storage

Handling: Avoid breathing vapor or contact with eyes, skin or clothing

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. Keep away from sparks or open flame.

Section 8 – Exposure Controls / Personal Protection

Protective Equipment: Have eye bath and safety shower available. Use protective gloves; recommended order of use is 4H, butyl, neoprene, nitrile (NBR) and PVC-coated. Use eye protection and chemical protective clothing.

Section 9 – Physical and Chemical Properties

Physical State: Liquid

Boiling Range: N/A

Appearance/Odor: Clear, pale yellow/ethereal odor

Vapor Density (Air=1): Heavier than air

% Volatile: N/A

Specific Gravity (@20°C): 0.95

Evaporation Rate: N/A

Vapor Pressure: N/A

Section 10 – Stability and Reactivity

Stability: Stable

Polymerization: Hazardous polymerization may occur at temperatures above 150°C.

Incompatibilities & Conditions to Avoid: Reacts with water or moisture to form methanol.

Section 11– Toxicological Information

See section 3 for routes of exposure and health effects.

Oral LD50 rat: 2-methylpropan-1-ol:3100mg/kg; Trimethoxyvinylsilane >7300 mg/kg;

N-(3-(trimethoxysilyl)propyl)ethylenediamine>2000 mg/kg

Skin LD50 rabbit: 2-methylpropan-1-ol:3400mg/kg; Trimethoxyvinylsilane >3400 mg/kg;

N-(3-(trimethoxysilyl)propyl)ethylenediamine >2000 mg/kg

Section 12– Ecological Information

This product is not readily biodegradable. Avoid runoff to sewers and waterways

Section 13– Product Disposal

See section 6. Incinerate in furnace where permitted. Otherwise, dispose of product according to local regulations.

Section 14 –Transport Information

IMDG/IACO/IATA

Shipping Name: FLAMMABLE LIQUID, N.O.S. (Trimethoxyvinylsilane)

UN #: 1993

Class: 3

Packing Group: II

Section 15 –Regulatory Information

Hazard Symbols: F, Xi: Highly Flammable, Irritant

Risk Phrases: R11 – Highly Flammable
R36/37/38 – Irritating to eyes, respiratory system and skin

Safety Phrases: S26: In case of contact with eyes, rinse immediately with 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
S29: Do not empty into drains.
S46 – if swallowed, seek medical advice immediately and show this container or label.

Section 16 –Other Information

Risk Phrases: R11 – Highly Flammable
R36/37/38 – Irritating to eyes, respiratory system and skin

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 publications of 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.