

## SAFETY DATA SHEET

According to Regulation (EU) No 453/2010

## SUPER SEAL PRO, SUPER SEAL PREMIUM, TARGET

Revision Date: February 1, 2013 Version: 2.1

Supersedes: February 1, 2012

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

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

Part Numbers: 940KIT; 940005; 946KIT; 941; 941KIT

**Product Class:** Automotive a/c additives **Manufacturer:** Cliplight Manufacturing

961 Alness Street

Toronto, ON M3J 2J1, Canada

email: sales@cliplight.com

**Telephone:** +1 416 736 9036 **Emergency Telephone:** +1 416 736 9036 (8 a.m. - 5 p.m. EST | UTC-5)

### Section 2 – Hazards Identification

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

#### **Symbols**

F Highly Flammable Xi Irritant

#### **R-Phrases**

R11 Highly Flammable
R36/38 Irritating to eyes and skin
R52 Harmful to aquatic organisms

Full text of R-phrases for this section can be found in Section 16.

## Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2) Skin irritation (Category 2) Serious eye damage (Category 1) Hazardous to the aquatic environment (Acute 3)

### Label elements:



Warning

#### **Hazard statements:**

H226 Flammable liquid and vapour H316 Causes mild skin irritation H319 Causes serious eye irritation H402 Harmful to aquatic life

**Revision Date:** February 1, 2013 **Version:** 2.1

### **Precautionary statements:**

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# Section 3 – Composition/Information on Ingredients

Ingredient Name	CAS No.	EC No.	Composition, wt%	Classification 67/548/EEC	Classification (EC) No 1272/2008
Trimethoxyvinylsilane	2768-02-7	220-449-8	10 - 30	Xn; R10, R20	Flammable liquids (Cat 2); H225
2-methylpropan-1-ol	78-83-1	201-148-0	10 - 30	X; R10, R37/38, R41, R67	Flammable liquids (Cat 3); H226 Specific organ toxicity – single exposure (Cat 3); H335, H336 Skin irritation (Cat 2); H315 Serious eye damage (Cat 1); H318
N-(3- (trimethoxysilyl)propyl) ethylenediamine	1760-24-3	217-164-6	7 - 13	C; R34, R52/53	Flammable liquids (Cat 4); H227 Skin irritation (Cat 2); H315 Serious eye damage (Cat 1); H317 Skin sensitization (Cat 1); H318 Hazardous to the aquatic environment (Chronic 2); H411
Trimethoxy(methyl)silane	1185-55-3	214-685-0	1 - 5	F; R11, R36/38	Flammable liquids (Cat 2); H225 Eye irritation (Cat 2B); H320
4-hydroxy-4- methylpentan-2-one	123-42-2	204-626-7	0.5 – 1.5	X; R36	Flammable liquids (Cat 3); H226 Acute toxicity, Inhalation (Cat 3); H331 Serious eye damage (Cat 1); H318

Full text of R-phrases and H-statements for this section can be found in Section 16.

Revision Date: February 1, 2013 Version: 2.1

### **Section 4 – First Aid Measures**

**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.

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

## **Section 5 – Firefighting Measures**

Extinguishing Media: CO2/Dry chemicals/Foam

**Special hazards arising from the substance or mixture:** Vapours 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. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

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

### Section 6 – Accidental Release Measures

Extinguish and do not turn on any ignition source until the area is determined to be free from fire or explosion hazard. Wear suitable protective equipment. For larger spills this should include self-contained breathing apparatus, rubber boots and rubber gloves. Avoid contact with liquid and vapours. Avoid contact with eyes.

Avoid runoff to sewers or waterways.

Soak up small spills with absorbent material. Material from larger spills should be collected for disposal. See section 13.

## **Section 7 – Handling and Storage**

Handling: Avoid breathing vapour or contact with eyes, skin or clothing.

**Ventilation:** This product should be stored and handled in closed equipment to keep vapours 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.

Revision Date: February 1, 2013 Version: 2.1

## Section 9 - Physical and Chemical Properties

Appearance Clear pale yellow liquid

Odour Ethereal
Vapour density Heavier than air
Flash Point 20°C (68°F)

Specific Gravity (@20°C (68°F)) 0.95

## Section 10 – Stability and Reactivity

**Reactivity:** Reacts with water or moisture to form methanol.

Chemical stability: Stable

Possibility of hazardous reactions: Hazardous reactions will not occur.

Hazardous decomposition products: Methanol

## **Section 11– Toxicological Information**

Primary Entry Routes: Skin, inhalation and ingestion

Target Organs: Kidneys, liver, central nervous system

**Effects of Overexposure:** 

**Swallowing:** May be harmful if swallowed.

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

**Skin:** Causes skin irritation.

**Eye Contact:** May cause severe eye irritation.

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

headache or nausea.

The toxicological properties of this product have not been investigated.

Information for hazardous components is provided below.

Oral LD50 rat: Trimethoxyvinylsilane >7300 mg/kg

2-methylpropan-1-ol: 3100mg/kg

 $N\hbox{-}(3\hbox{-}(trimethoxysilyl) propyl) ethylenediamine > 2000 \ mg/kg$ 

4-hydroxy-4-methylpentan-2-one: 2520 mg/kg Trimethoxy(methyl)silane: 11,747 mg/kg

**Skin LD50 rabbit:** Trimethoxyvinylsilane >3400 mg/kg

2-methylpropan-1-ol: 3400mg/kg

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

4-hydroxy-4-methylpentan-2-one: 13,500 mg/kg

**Skin LD50 rat:** Trimethoxy(methyl)silane >9,500 mg/kg

Revision Date: February 1, 2013 Version: 2.1

## **Section 12– Ecological Information**

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

The silane components of the product degrade through hydrolysis into alcohols and silanol and/or siloxanol compounds.

The product is not expected to be readily biodegradable.

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Toxicity to fish LC50

Species: Lepomis macrochirus

Result: > 100 mg/l

Toxicity to other EC50

organisms Species: Daphnia magna

Result: 87.4 mg/l Exposure time: 48 h

Toxicity to algae EC50

Species: Pseudokirchneriella subcapitata

Result: 8.8 mg/l Exposure time: 96 h

NOEC

Species: Pseudokirchneriella subcapitata

Result: 3.1 mg/l

## **Section 13– Disposal Considerations**

Incinerate in furnace where permitted. Use extra care in igniting this material due to its flammability. 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**

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

Version: 2.1 **Revision Date:** February 1, 2013

### Section 16 -Other Information

#### Full text of R-phrases in sections 2 and 3:

R10 Flammable Highly Flammable R11 Harmful by inhalation R20 Causes burns R34 R36 Irritating to eyes R36/38 Irritating to eyes and skin R37/38 Irritating to respiratory system and skin Risk of serious damage to eyes R41

R52 Harmful to aquatic organisms

R52/53 Harmful to aquatic organisms, may cause long-term effects in the aquatic environment

Vapours may cause drowsiness or dizziness R67

#### Full text of H-statements in sections 2 and 3:

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour

H227 Combustible liquid

H315 Causes skin irritation

H316 Causes mild skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H320 Causes eve irritation

H331 Toxic if inhaled

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H402 Harmful to aquatic life

H411 Toxic to aquatic life with long lasting effects

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.