SDS# 941, 941KIT, 946KIT
Date: June 3, 2019

Total Pages: 7

Super Seal Premium™, Super Seal Target™

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Name: Super Seal Premium™; Super Seal Target™
Catalog Number: 941, 941KIT, 946KIT
Product Class: Automotive A/C Additives
Manufactured by: DiversiTech Corporation
3039 Premiere Parkway, Suite 600
Duluth, GA, 30097
Information Phone No.: 1+678.542.3600
EMERGENCY Phone No.: 1 800.255.3924 Chem-Tel (Chemical Emergencies)

SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

GHS Classification:

Flammable liquids: Category 2
Acute toxicity (Inhalation): Category 4
Skin corrosion/irritation: Category 2
Serious eye damage: Category 1
Skin Sensitization: Category 1
Specific Target Organ Toxicity - Single Exposure (respiratory system, central nervous system): Category 3
Specific Target Organ Toxicity - Repeat Exposure (bladder): Category 2
Hazardous to the aquatic environment – Long Term: Chronic 3

Label Elements:

Signal Word Danger

Hazard Statement(s)

Highly flammable liquid and vapour
Harmful if inhaled
Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
May cause respiratory irritation
May cause drowsiness or dizziness
May cause damage to organs through repeated or prolonged exposure (bladder)
Harmful to aquatic life with long lasting effects

Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves and eye protection.
Do not breathe mist, vapour or spray.
Use only outdoors or in a well-ventilated area.
Wash hands and exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.

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SECTION 2. HAZARDOUS INGREDIENTS INFORMATION (cont.)

In case of fire: Use carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray to extinguish.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a doctor if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Specific treatment: see first aid measures on this label.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately seek medical attention.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents and container in accordance with local/regional/national regulations.

Other hazards

None known.

SECTION 3. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS No.	Composition, wt%
Trimethoxyvinylsilane	2768-02-7	25-35
2-methylpropan-1-ol (iso-butyl alcohol)	78-83-1	15-30
N-(3-(trimethoxysilyl)propyl) ethylenediamine	1760-24-3	10-20
Trimethoxy(methyl)silane	1185-55-3	1-5

Remaining components of this product are not classified as hazardous under WHMIS 2015.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Remove person 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

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately seek medical attention

Skin Contact

Immediately wash skin with soap and plenty of water. If irritation persists or if contact has been prolonged, obtain medical attention. Take off contaminated clothing and wash it before reuse.

Ingestion

Do NOT induce vomiting. Wash out mouth with water provided person is conscious. Obtain medical attention.

Acute and Delayed Symptoms

This product is expected to react with moisture in the gastrointestinal tract to form methanol. Symptoms may be delayed and include headache, dizziness, nausea, lack of coordination, and confusion.

Special Treatment Needed

Get medical treatment immediately.

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SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media
DO NOT USE WATER STREAM. Use carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.

Special hazards arising from the substance or mixture
Burning in a fire produces carbon oxides, silicon oxides, smoke and fumes.

Advice for firefighters
Wear self-contained breathing apparatus and protective clothing. Do not breathe fumes or vapours.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures
Clear the area of unnecessary personnel. Shut off all sources of ignition. No smoking.
Wear chemical-resistant gloves and chemical safety goggles. Ensure adequate ventilation. Do not breathe fumes or vapours.

Environmental precautions
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 and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Do not breathe vapour. Wear chemical-resistant gloves and chemical safety goggles. Avoid contact with eyes, skin and clothing.
Do not smoke, eat or drink when using this product. Ensure adequate ventilation. Use non-sparking equipment.
Avoid static discharge.

Conditions for safe storage
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, open flame or other sources of ignition. Store locked up.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

COMPONENT	CAS No.	VALUE	CONTROL PARAMETERS
2-methylpropan-1-ol (iso-butyl alcohol)	78-83-1	STEL	75 ppm 231 mg/m3
		TWA	50 ppm 154 mg/m3

Engineering Controls
Have eye bath available. Use non-sparking tools.

Protective Equipment
Wear chemical-resistant gloves and chemical safety goggles or safety glasses with side shields and chemical protective clothing.

Hygiene
Practice good industrial hygiene. Do not smoke, eat or drink when handling or using this product.
Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear pale yellow liquid
Odour	Ethereal
Odour threshold	No data available
pH	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	20°C (68°F)
Evaporation rate	No data available
Flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	Heavier than air
Specific Gravity	0.95 @ 25°C (77°F)
Water Solubility	No data available
Partition coefficient:	No data available
n-octanol/water	
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, heat, flames and static discharge

Incompatible materials
Acids, strong oxidizing agents

Hazardous decomposition products
Reacts with water or moisture to form methanol.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness

Ingestion: Not a likely route of exposure. May cause burns to mouth, throat and stomach.

Skin Contact: Causes skin irritation. May cause an allergic skin reaction

Eye Contact: Causes serious eye damage.

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SECTION 11. TOXICOLOGICAL INFORMATION (cont.)

Symptoms related to physical, chemical and toxicological characteristics

Inhalation: Symptoms of exposure may include coughing, wheezing, shortness of breath and breathing difficulties. May cause allergy or asthma symptoms.

Ingestion: Irritation of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract, Risk of aspiration upon vomiting. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include stomach pains.

Skin Contact: Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product. Pain or irritation, redness or blistering may occur.

Eye Contact: Symptoms may include pain, watering or redness. There is a risk of corneal clouding.

Delayed and immediate effects
Serious effects due to inhalation may be delayed.

Chronic effects from short-term and long-term exposure
May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur on subsequent exposures.

Numerical measures of toxicity

The toxicological properties of this product have not been investigated.
Information for hazardous components is provided below.

Acute toxicity

Oral LD50 rat:	Trimethoxyvinylsilane: >7000 mg/kg 2-methylpropan-1-ol: >2830 mg/kg N-(3-(trimethoxysilyl)propyl)ethylenediamine: 8000 mg/kg Trimethoxy(methyl)silane: 11,685 mg/kg
Inhalation LC50 rat:	Trimethoxyvinylsilane: 16.4-17.8 mg/l 4 h 2-methylpropan-1-ol: 24.6 mg/l N-(3-(trimethoxysilyl)propyl)ethylenediamine: 1.49-2.44 mg/l Trimethoxy(methyl)silane: >42.1 mg/l
Skin LD50 rabbit:	Trimethoxyvinylsilane: 4000 mg/kg 2-methylpropan-1-ol: 4000 mg/kg (male) 3000 mg/kg (female) N-(3-(trimethoxysilyl)propyl)ethylenediamine: >2000 mg/kg
Skin LD50 rat:	2-methylpropan-1-ol: 2460 mg/kg Trimethoxy(methyl)silane: >9,500 mg/kg

Skin corrosion/irritation

Skin irritation rabbit:	Trimethoxyvinylsilane: no irritation 2-methylpropan-1-ol: no irritation Trimethoxy(methyl)silane: no irritation

Serious eye damage/irritation

Rabbit:	2-methylpropan-1-ol: causes serious eye damage N-(3-(trimethoxysilyl)propyl)ethylenediamine: corrosive to eyes Trimethoxy(methyl)silane: no eye irritation

Respiratory or skin sensitization

Guinea pig:	Trimethoxyvinylsilane - did not cause sensitization N-(3-(trimethoxysilyl)propyl)ethylenediamine - may cause sensitization by skin contact Trimethoxy(methyl)silane – did not cause sensitization

Carcinogenicity
None of the components of this product is identified as a carcinogen by IARC, ACGIH, NTP or OSHA.

Specific target organ toxicity – single exposure
2-methylpropan-1-ol: May cause respiratory irritation. Target organ: Central nervous system. May cause drowsiness or dizziness.

Aspiration hazard
No data available

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SECTION 12. ECOLOGICAL INFORMATION

No data are available for the ecological effects of this product; information on some components is provided below.
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.

Toxicity to fish:	N-(3-(trimethoxysilyl)propyl)ethylenediamine LC50 Species: Lepomis macrochirus Result: >100 mg/l Trimethoxyvinylsilane LC50 Species: Brachydanio rerio Result: >100 mg/l NOEC Species: Zebra fish Result: 100 mg/l (96 h) 2-methylpropan-1-ol LC50 Species: Pimephales promelas Result: 1.43 mg/l; 96 h
Toxicity to other organisms	N-(3-(trimethoxysilyl)propyl)ethylenediamine EC50 Species: Daphnia magna Result: 87.4 mg/l Exposure time: 48 h Trimethoxyvinylsilane EC50 Species: Daphnia magna Result: 87.4 mg/l, fresh water Exposure time: 48 h NOEC Species: Daphnia magna Result: 100 mg/l (48 h)
Toxicity to algae:	N-(3-(trimethoxysilyl)propyl)ethylenediamine EC50 Species: Pseudokirchneriella subcapitata Result: 8.8 mg/l Exposure time: 96 h NOEC Species: Pseudokirchneriella subcapitata Result: 3.1 mg/l Trimethoxyvinylsilane EC50 Species: Desmodesmus subspicatus Result: >100 mg/l Exposure time: 72 h

Persistence and degradability
Trimethoxyvinylsilane: Not readily biodegradable (28 d) when tested according to OECD - Guideline 301 F.
2-methylpropan-1-ol: Readily biodegradable; 99 %; 14 d) when tested according to OECD Test Guideline 301A

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SECTION 12. ECOLOGICAL INFORMATION (cont.)

Bioaccumulative potential
Trimethoxyvinylsilane: Not bioaccumulating.

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 federal, provincial, and local environmental regulations.

Contaminated packaging
Dispose of as product.

SECTION 14. TRANSPORTATION INFORMATION

TDG/IATA/IACO/IMDG

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

SECTION 15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act (SARA) Title III Information: SARA Section 311/312 (40 CFR 370)
Immediate Hazard – Yes, Flammable liquids category 3, Skin corrosion/irritation/irritation category 2, serious eye damage/irritation category 1, Hazardous to the aquatic environment (Chronic 3)

Delayed Hazard – Yes, Specific Target Organ Toxicity (Repeat Exposure) Category 2, Skin Sensitization Category 1
Fire Hazard – Yes, Category 3
Pressure Hazard – No
Reactivity Hazard – Low risk for hazardous reactions

SARA Section 313 (40 CFR 372) Component
This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

State Regulations – California Proposition 65:
This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under at levels which would be subject to the proposition.

Toxic Substances Control Act (TSCA):
All components of this product are included on the TSCA inventory.

SECTION 16. OTHER INFORMATION

This version 4.1 (June 3, 2019) has been updated from the previous version 4.0 of August 11, 2017 and conforms to the requirements of WHMIS 2015.

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.