SUPERIOR
ADHESIVES & TOOLS

Section 1 – Identification

SUPPLIER:	Superior Adhesives & Tools	NOTE: Blank spaces are not permitted. If no relevant information is found for any given subheading within a section, the SDS shall clearly indicate that no applicable information is available.
ADDRESS:	14000 Carlson Parkway Plymouth, MN 55441	Emergency Telephone Number (CHEMTREC) (800) 424-9300 Telephone Number for Information (888) 398-6595
TELEPHONE:	888-398-6595	Recommended use of the product: Apply onto various surfaces to promote water repellency.
Product Identifier (as used on Label, SDS and list) **Max Seal** Other means of identification: none		

Section 2 – Hazard Identification

Flammable liquids	Category: 3	Signal Word: DANGER
Aspiration hazard	Category: 1	Signal Word: DANGER
Serious Eye Damage/Irritation	Category: 2A	Signal Word: DANGER
Chronic aquatic toxicity	Category: 4	Signal Word: DANGER

Hazard Statements:
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary Statements:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection.
P243 Take action to prevent static discharges.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: use extinguishing powder, foam or carbon dioxide to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to waste disposal.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 6.3.
The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 6.3.
Other hazards:
The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and
health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on
the specific conditions.

Section 3 – Composition/Ingredients (*= trade secret)			
Chemical Name	Common Name and synonyms	CAS No.	Percentage
Naphtha	petroleum, heavy alkylate	64741-65-7	80-90
C11 - C15 Isoalkanes		90622-58-5	0.5-5
Tetra n-butyl titinate	Titanium n-butoxide	5593-70-4	<0.2

Section 4 – First Aid Measures

General information:
Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

After inhalation:
If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

After contact with the skin:
If contact with skin, immediately flush skin with plenty of water for at least 15 min.

After contact with the eyes:
If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

After swallowing:
For Ingestion, do not attempt to induce vomiting. Danger of aspiration. If swallowed, rinse mouth with water. Induce drinking plenty of water in small portions. Get medical attention immediately. Indicate the possible formation of methanol. Show label if possible.

Advice for the physician:
Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

Section 5 – Fire-Fighting Measures

Flammable properties:

Property:	Value:	Method:
Flash point	43 °C (109 °F)	(ISO 3679)
Boiling point / boiling range	> 150 °C (> 302 °F) at 1013 hPa	
Lower explosion limit (LEL)	0.6 %(V)	
Upper explosion limit (UEL)	6.0 %(V)	
Ignition temperature	270 °C (518 °F)	(EN 14522)
NFPA Hazard Class (comb./flam.liquid)	II	

Enhance & Seal	
HEALTH	**1**
FLAMMABILITY	**2**
PHYSICAL HAZARDS	**0**

Fire and explosion hazards:
OSHA combustible, DOT flammable liquid and vapor. Vapors are heavier than air and may travel along the ground, be moved by ventilation systems, settle in pits or low areas, and be ignited by ignition sources distant from the handling point. The material is lighter than water; burning spilled material will float on top of any water released from hose or sprinkler systems spreading the fire beyond the initial fire response area. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. As a result of hydrolysis flammable vapors may accumulate in the container head space. Material may form toxic and corrosive gases in case of fire.

Recommended extinguishing media:
AFFF alcohol compatible foam. Carbon dioxide. Dry chemical. Water may be used to cool tanks and structures adjacent to the fire.

Unsuitable extinguishing media:
Water may be ineffective in controlling fires of this material. Do not use water to fight these fires.
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:
Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide and incompletely burnt hydrocarbons.

Firefighting procedures:
Full turnout gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

NFPA Rating: Health: 1 Flammability: 2 Reactivity: 0

Section 6 – Accidental Release Measures

Precautions:
Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapours.
HAZWOPER PPE Level: D
Containment:
Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response
Center's toll free phone number (800) 424-8802.
Methods for cleaning up:
Do not flush away with water. Take up mechanically and dispose of according to local/state/federal regulations. Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers.
Further information:
Eliminate all sources of ignition.

Section 7 – Handling and Storage

Precautions for safe handling:
Ensure adequate ventilation. Must be syphoned off in situ.
Precautions against fire and explosion:
Take precautionary measures against electrostatic charging. Cool endangered containers with water. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from open flames, heat and sparks. Keep away from sources of ignition and do not smoke.
Storage
Conditions for storage rooms and vessels:
Make sure there is no possibility of entering the ground.
Advice for storage of incompatible materials:
Observe local/state/federal regulations.
Further information for storage:
Do not store in open air. Store in a dry and cool place. Keep container tightly closed.
Minimum temperature allowed during storage and transportation: 15 °C (59 °F)

Section 8 – Exposure Controls/Personal Protection

Component	CAS	OSHA PEL; TWA
Methanol; decomposition product	67-56-1	200 ppm
Dipropyleneglycol methylether	34590-94-8	100 ppm

Engineering controls
Ventilation:
Use only with adequate ventilation.
Local exhaust:
To control flammable/combustible vapors: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use. (to maintain concentration below TLV) .
Re Methanol (CAS-no. 67-56-1): STEL is 250 ppm, skin notation (ACGIH); STEL is 250 ppm, skin notation (NIOSH).
Re dipropyleneglycol methylether (CAS 34590-94-8): ceiling is 150 ppm, skin notation (ACGIH); skin designation (OSHA).
Personal protection equipment (PPE)
Respiratory protection:
Respiratory protection is not normally required.
Hand protection:
Butyl rubber protective gloves or neoprene or nitrile rubber gloves.

Section 8 – Exposure Controls/Personal Protection continued

Eye protection:
Safety glasses with side shields or chemical safety goggles. Where there is risk of splashing: tight fitting chemical safety goggles. Other protective clothing or equipment: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

General hygiene and protection measures:
Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling

Section 9 – Physical and Chemical Properties

Appearance
Physical state / form.....: liquid (25 °C (77 °F) / 1013 hPa)
Colour .....: yellowish
Odour.....: solvent-like 9.2 Safety parameters

Property:	Value:	Method:
Flash point	43 °C (109 °F)	(ISO 3679)
Boiling point / boiling range	> 150 °C (> 302 °F) at 1013 hPa	
Lower explosion limit (LEL)	0.6 %(V)	
Upper explosion limit (UEL)	6.0 %(V)	
Vapor Pressure	1 hPa / 25 °C (77 °F)	(EU-GL.A.4)
Ignition temperature	270 °C (518 °F)	(EN 14522)
Density	0.88 g/cm³ at 25 °C (77 °F), at 1013 hPa	(DIN 51757)
Water solubility / miscibility	moderately soluble at 25 °C (77 °F)	

Section 10 – Stability and Reactivity

General information:
If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Conditions to avoid:
moisture, Heat, open flames, and other sources of ignition.

Materials to avoid:
Reacts slowly with water. Reaction causes the formation of: methanol.

Hazardous decomposition products:
If stored and handled properly: none known. The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. By hydrolysis: methanol.

Further information:
Hazardous polymerization cannot occur.

Section 11 – Toxicological Information

Information on toxicological effects:

Acute toxicity Assessment:
No data on acute inhalation toxicity is available for this product.

In case of aerosol formation:
Avoid inhalative exposure!

Acute toxicity estimate (ATE):
ATEmix (oral): > 2000 mg/kg

Skin corrosion/irritation Assessment:
For this endpoint no toxicological test data is available for the whole product.

Serious eye damage / eye irritation Assessment:
For this endpoint no toxicological test data is available for the whole product.

Respiratory or skin sensitization Assessment:
For this endpoint no toxicological test data is available for the whole product.

Section 11 – Toxicological Information continued

Germ cell mutagenicity Assessment:
For this endpoint no toxicological test data is available for the whole product.
Carcinogenicity Assessment:
For this endpoint no toxicological test data is available for the whole product.
Reproductive toxicity Assessment:
For this endpoint no toxicological test data is available for the whole product.
Specific target organ toxicity (single exposure) Assessment:
For this endpoint no toxicological test data is available for the whole product.
Specific target organ toxicity (repeated exposure) Assessment:
For this endpoint no toxicological test data is available for the whole product.
Aspiration hazard Assessment:
Product can pose an aspiration hazard.
Further toxicological information:
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other information: Repeated exposure may cause skin dryness or cracking. Hydrolysis product / impurity: Methanol (CAS 67-56- 1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

Section 12 – Ecological Information (Non-mandatory)

Toxicity
Assessment:
Organic solvent(s): May cause long-term adverse effects in the aquatic environment.
Persistence and degradability
Assessment:
Silicone content: biologically not degradable. Elimination by adsorption to activated sludge. The product of hydrolysis (methanol) is readily biodegradable.
Bioaccumulative potential
Assessment:
No data known.
Mobility in soil Assessment:
No data known.
Other adverse effects
none known

Section 13 – Disposal Considerations

RCRA Waste Classification:
D001 (Ignitable)
This classification applies only to the material as it was originally produced.
Product disposal Recommendation:
Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.
Packaging disposal Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

Section 14 – Transport Information (Non-mandatory)

US DOT & CANADA TDG SURFACE

Valuation .....: Dangerous Goods
Proper Shipping Name.....: Flammable liquid, n.o.s.
Technical name.....: (contains Trimethoxy(2,4,4-trimethylpentyl)silane and Isoparaffins)
Class .....: 3
UN no.....: 1993
Packaging Group .....: III
Label .....: **TL:flammable liquid/3
NAERG Guide.....: 128
Other Information .....: Temperature Sensitive Material. Protect from freezing, when exposed to cold temperatures approaching 0 °C (32 °F) or below.

Transport by sea IMDG-Code

Valuation .....: Dangerous Goods
Class .....: 3
Packaging Group .....: III
UN no.....: 1993
Proper Shipping Name.....: Flammable liquid, n.o.s.
Technical name.....: (contains Trimethoxy(2,4,4-trimethylpentyl)silane and Isoparaffins)
Marine Pollutant .....: no

Air transport ICAO-TI/IATA-DGR

Valuation .....: Dangerous Goods
Class .....: 3
UN no.....: 1993
Proper Shipping Name.....: Flammable liquid, n.o.s.
Technical name.....:(contains Trimethoxy(2,4,4-trimethylpentyl)silane and Isoparaffins)
Packaging Group .....: III

Section 15 – Regulatory Information (Non-mandatory)

U.S. Federal regulations

TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

Fire hazard. Immediate (acute) health hazard.

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

CAS No.	Chemical	Upper limit wt. %
67-56-1	Methanol	<=0.1800
71-43-2	Benzene	<=0.0002

Section 15 – Regulatory Information (Non-mandatory) continued

U.S. State regulations

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

California Proposition 65 Carcinogens:

71-43-2 Benzene

California Proposition 65 Reproductive Toxins:

67-56-1 Methanol

71-43-2 Benzene

Massachusetts Substance List:

34590-94-8 Dipropyleneglycol monomethylether

New Jersey Right-to-Know Hazardous Substance List:

34590-94-8 Dipropyleneglycol monomethylether

Pennsylvania Right-to-Know Hazardous Substance List:

34590-94-8 Dipropyleneglycol monomethylether

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Canada ..... : DSL (Domestic Substance List): This product is not listed or in compliance with the substance inventory.

United States of America (USA)..... : TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.

Section 16 – Other Information

Additional information: This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200).This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Superior Adhesives & Tools. The data on this sheet is only related to the specific material designated herein. Superior Adhesives & Tools assumes no legal responsibility for use or reliance on this data.