## **SAFETY DATA SHEETS**

## This SDS packet was issued with item:

076467708

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070844555 076467716 076467724 076467732 076467740 076467757 076467765

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

076485254



## MATERIAL SAFETY DATA SHEET

M.S.D.S.#00017 Page 1 of 2 October 31, 2009

### 1. Chemical Product and Contact Information

**Product Name:** Silane

Material Safety Sheet Number: 00017 Date of Issue: 06/20/00 Revision Date: 10/31/09

Company Identification: Pentron Clinical

1717 West Collins Ave.

Orange, CA 92867

Phone: 800-551-0283 203-265-7397

800-424-9300 **Emergency Information Chemtrec:** Chemtrec International: 202-483-7616

### 2. Composition/Information on Ingredients

Chemical characteristics:

Organosilane in alcohol based solvent.

Description: Hazardous components: Same as chemical characteristics above.

Element	CAS #	Exposure Limit mg/m³	
		OSHA PEL	ACGIH TLV
Methyl Alcohol	67-56-1	260	262
Silane	7803-62-5	N/E	6.6

#### 3. Hazard Identification

Risk identification: Flammable.

Special risks for human beings and environment: Unknown.

Classification: Unknown.

#### 4. First Aid Measures

General information:

After skin contact:

After eye contact:

After swallowing:

Remove with copious amounts of water and paper towel when in contact with skin. Immediately rinse eyes for 15 min. with water. Consult an opthamologist if needed.

Rinse/flush under physician care with saline solution. Consult a physician immediately. Rinse oral cavity with water and exude or

expectorate. Induce vomiting. Seek fresh air.

#### 5. Fire Fighting Measures

Extinguishing media:

Protective equipment:

Chemical foam, carbon dioxide or dry chemical. Wear self-contained breathing apparatus and protective clothing to prevent contact

with skin and eyes.

## 6. Accidental Release Measures

Personal precautions:

Environmental precautions:

Wear protective masks, gloves and goggles and follow common hygienic measures. Absorb with inert material. Collect in closed containers and dispose of as

Methods for cleaning up:

recommended. Avoid skin contact, wear protective equipment.

Additional information:

Dispose in accordance with Federal, State, and local regulations. Unknown.

## 7. Handling and Storage

Store at ambient temperature.

## 8. Exposure Controls/Personal Protection

Personal protective equipment:

General measure of protection

Protective gloves, goggles are recommended.

Normal hygienic measures.

and hygiene: Respiration: Hands:

Masks.

Protective gloves.

Eyes: OSHA approved goggles.



## MATERIAL SAFETY DATA SHEET

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#### 9. Physical and Chemical Properties

Appearance: Form:

Liauid. Color: Clear

Odor:

Alcohol odor.

Information on change in the physical state

Melting point/melting range:

Boiling point/boiling range: Flash point:

Not applicable. 65° C

Autoignition temperature: Danger of explosion:

12º C 470° C

Specific gravity: Vapor pressure: Autoignites, explodes in presence of flame.

Vapor density: Viscosity:

0.80 gm/cc Unknown. 1.11

pH: Solubility in/miscibility with water: Not applicable. Not applicable. Soluble

Content of solvents: Organic solvents: Water:

> 90%

Unknown.

Content of solids:

None. ≤0.1%

10. Stability and Reactivity

Incompatibility with other substances:

Hazardous discomposition products: 11.Toxicological Information

NTP: not listed.

and reducing agents.

Carcinogenicity:

IARC Monographs: not listed.

TI \/·

OSHA Regulated: not listed. Unknown.

Primary Routes of entry:

Inhalation/ingestion, skin, and eyes.

12. Ecological Information

General information:

Classification of water endangerment:

Unknown. Unknown.

13. Disposal Considerations

Disposal consideration:

Dispose in accordance with Federal, State, and local

Heat, excessive water or moisture, strong oxidizing

regulations.

14. Transport Information

Not classified as dangerous goods.

15. Regulatory information

Classification according to EEC guidelines:

National Prescriptions:

Unknown. Unknown. Unknown.

Classification according to VbF:

16. Other Information

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# **SAFETY DATA SHEET**

## **SILANE**

## **Section 1. Identification**

**GHS** product identifier

Other means of identification

: Not available.

**Product type** 

: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Dental Restoration/Surface Treatment

: Professional applications. Area of application

**Manufacturer** : Pentron Clinical

> 1717 West Collins Avenue Orange, CA 92867-5422

Telephone no.: 1-203-265-7397, Toll Free: 1-800-551-0283

e-mail address of person responsible for this SDS

: edwin.varela@kavokerrgroup.com

**Emergency telephone** number (with hours of operation)

: CHEMTREC® (24 hours) U.S. : 1-800-424-9300

International: +1-703-527-3887

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

**GHS** label elements

**Hazard pictograms** 







Signal word

: Danger

**Hazard statements** 

: Highly flammable liquid and vapor.

Toxic if swallowed, in contact with skin or if inhaled.

Causes serious eve irritation. Causes skin irritation.

May damage the unborn child. Causes damage to organs.

May cause drowsiness and dizziness.

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## Section 2. Hazards identification

### **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response

: IF exposed: Call a POISON CENTER or physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage Disposal

- : Store locked up. Store in a well-ventilated place. Keep cool.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture Other means of identification : Mixture: Not available.

### **CAS** number/other identifiers

CAS number : Not applicable.

Product code : 00017

Ingredient name	Other names	%	CAS number
3-trimethoxysilylpropyl methacrylate	methanol 3-trimethoxysilylpropyl methacrylate	60 - 100 1 - 5	67-56-1 2530-85-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

## Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

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## Section 4. First aid measures

#### Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Skin contact

: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness and dizziness.

**Skin contact**: Toxic in contact with skin. Causes skin irritation. Defatting to the skin.

Ingestion : Toxic if swallowed. Can cause central nervous system (CNS) depression. Irritating to

mouth, throat and stomach.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

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## Section 4. First aid measures

Ingestion

: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal** decomposition products Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides formaldehyde.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective** equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

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# Section 6. Accidental release measures

### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### **Precautions for safe handling**

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 4 to 25°C (39.2 to 77°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

**Control parameters** 

**Occupational exposure limits** 

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# Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
methanol	ACGIH TLV (United States, 6/2013).
	Absorbed through skin.
	TWA: 200 ppm 8 hours.
	TWA: 262 mg/m <sup>3</sup> 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 328 mg/m³ 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin.
	STEL: 250 ppm 15 minutes.
	STEL: 325 mg/m³ 15 minutes.
	TWA: 200 ppm 8 hours.
	TWA: 260 mg/m <sup>3</sup> 8 hours.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	TWA: 200 ppm 10 hours.
	TWA: 260 mg/m³ 10 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 325 mg/m³ 15 minutes.
	OSHA PEL (United States, 2/2013).
	Absorbed through skin.
	TWA: 200 ppm 8 hours.
	TWA: 260 mg/m <sup>3</sup> 8 hours.

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

# Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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# Section 8. Exposure controls/personal protection

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

: Liquid.

**Appearance** 

**Physical state** 

Color : Clear.

Odor : Alcohol-like.

Odor threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : 65°C (149°F)

Flash point : Closed cup: 12°C (53.6°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Not applicable.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: 1.11 [Air = 1]Relative density: 0.8 gm/cc

**Solubility** : Soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature: 470°C (878°F)Decomposition temperature: Not available.SADT: Not available.Viscosity: Not available.

Physical/chemical : Organic solvents: ≥90% content of solids: ≤0.1%

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

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# Section 10. Stability and reactivity

### **Conditions to avoid**

: Keep away from heat. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

### **Incompatible materials**

: Reactive or incompatible with the following materials: oxidizing materials, reducing materials and moisture.

# Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **Section 11. Toxicological information**

## Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
methanol	LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal	Rat Rat Rabbit	145000 ppm 64000 ppm 15800 mg/kg	1 hours 4 hours
3-trimethoxysilylpropyl methacrylate	LD50 Oral LD50 Oral	Rat Rat	5600 mg/kg 23504 mg/kg	-

### **Conclusion/Summary**

: Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	_
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
3-trimethoxysilylpropyl methacrylate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
, ,	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

Specific target organ toxicity (single exposure)

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# Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
methanol	Category 1	Not determined	central nervous system (CNS) and optic nerve
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness and dizziness.

**Skin contact**: Toxic in contact with skin. Causes skin irritation. Defatting to the skin.

Ingestion : Toxic if swallowed. Can cause central nervous system (CNS) depression. Irritating to

mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

# <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

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# Section 11. Toxicological information

**Potential immediate** 

effects

: Not available.

**Potential delayed effects** 

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards.

**Teratogenicity** : May damage the unborn child.

**Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

## **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
Oral Dermal Inhalation (vapors)	101 mg/kg 303 mg/kg 3.03 mg/l

# **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
methanol	Acute EC50 16.912 mg/l Marine water Acute LC50 2500000 μg/l Marine water	Algae - Ulva pertusa Crustaceans - Crangon crangon - Adult	96 hours 48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
methanol	-	-	Readily

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
methanol	-0.77	<10	low
3-trimethoxysilylpropyl	2.1	-	low
methacrylate			

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# **Section 12. Ecological information**

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#		Reference number
Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154

# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	UN1230	UN1230	UN1230
UN proper shipping name	Methanol RQ (methanol)	METHANOL	Methanol
Transport hazard class(es)	3 (6.1)  **TAMMRET LICITION** **FORSION**	3 (6.1)	3 (6.1)
Packing group	II	II	II
Environmental hazards	No.	No.	No.
Additional information	Reportable quantity 5050.3 lbs / 2292.8 kg [757.13 gal / 2866 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.  Limited quantity	Emergency schedules (EmS) F-E, S-D Special provisions 279	Passenger and Cargo Aircraft Quantity limitation: 1 L Packaging instructions: 352 Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 364 Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y341

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# **Section 14. Transport information**

**Special provisions** Packaging instruction A104, A113 Passenger aircraft Quantity limitation: 1 L Cargo aircraft Quantity limitation: 60 L **Special provisions** IB2, T7, TP2

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

**Clean Air Act Section 602** 

Class I Substances

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

Classification : Fire hazard

> Immediate (acute) health hazard Delayed (chronic) health hazard

## **Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
methanol	60 - 100	Yes.	No.	No.	Yes.	Yes.
3-trimethoxysilylpropyl methacrylate	1 - 5	No.	No.	No.	Yes.	No.

### **SARA 313**

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# **Section 15. Regulatory information**

	Product name	CAS number	%
Form R - Reporting requirements	methanol	67-56-1	60 - 100
Supplier notification	methanol	67-56-1	60 - 100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### **State regulations**

Massachusetts : The following components are listed: METHANOL

New York : The following components are listed: Methanol

New Jersey : The following components are listed: METHYL ALCOHOL; METHANOL

Pennsylvania : The following components are listed: METHANOL

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
methanol	No.	Yes.		23000 µg/day (ingestion) 47000 µg/day (inhalation)

## **Section 16. Other information**

### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

## **National Fire Protection Association (U.S.A.)**



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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# Section 16. Other information

**History** 

Date of issue/Date of : 07/24/2014

revision

Date of previous issue : No previous validation

Version : 1
Prepared by : IHS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

**▼** Indicates information that has changed from previously issued version.

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 07/24/2014 Date of previous issue : No previous validation Version : 1 14/14



### **SAFETY DATA SHEET**

## Section 1. Product And Company Identification

**Product Name: Breeze™ Self-Adhesive Resin Cement** 

**Product Use:** Dental product: Permanent cement

Manufacturer: Kerr Corporation

1717 W. Collins Ave. Orange, CA 92867-5422

U.S.A.

**Information Phone Number**: 1-800-841-1428 (Customer Service)

Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):

CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date of Preparation/Revision: June 4, 2019

### Section 2. Hazards Identification

## **GHS Classification for Base and Catalyst:**

Skin Irritation Category 2
Eye Irritation Category 2A
Skin Sensitization Category 1
Specific Target Organ Toxicity Single Exposure Category 3

### **Label Elements:**

Warning!



#### **Hazard Phrases**

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause respiratory irritation.

### **Precautionary Phrases:**

Avoid breathing dust and vapor.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves, protective clothing, eye protection, face protection.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or a rash occurs: Get medical attention.



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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical attention. Store locked up.

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

## Section 3. Composition/Information on Ingredients

The following ingredients are in the Base:

Component	CAS No.	Amount
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-	72869-86-4	10-30%
dioxa-5,12-diazahexadecane-1,16-diyl		
bismethacrylate		
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	1-5%
Phosphorus pentoxide	1314-56-3	1-5%

The following ingredients are in the Catalyst:

Component	CAS No.	Amount
2-[(2-methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro- 1,3-dioxoisobenzofuran-5-carboxylate	70293-55-9	10-30%
2-hydroxyethyl methacrylate	868-77-9	5-10%
Dibenzoyl peroxide	94-36-0	0.1-1%

#### **Section 4. First Aid Measures**

**Inhalation:** Remove victim to fresh air. Get medical attention if symptoms occur.

**Skin Contact:** Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

Eye Contact: Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

**Most important symptoms and effects, acute and delayed:** Causes serious eye irritation and skin irritation. Inhalation may cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Ingestion may be irritating to mouth, throat and stomach.

**Indication of immediate medical attention and special treatment, if needed:** Immediate medical attention is not required.

## **Section 5. Fire Fighting Measures**

**Suitable (and Unsuitable) Extinguishing Media:** Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

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**Specific Hazards Arising from the Chemical:** Combustion may produce carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds, and metal oxides.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

### **Section 6: Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:** Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment. Do not breathe dust or vapors.

**Environmental Precautions:** Avoid releases to the environment. Report spill as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning up:** Prompt cleanup and removal are necessary. Absorb spills with an inert material and place in an appropriate waste disposal container.

## Section 7. Handling and Storage

**Precautions for Safe Handling:** Prevent contact with eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke in the work area. Do not breathe vapors. Use with adequate ventilation. Remove and wash contaminated clothing before reuse.

Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store between 2°C to 8°C (35.6°F to 46.4°F). Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

### Section 8. Exposure Controls / Personal Protection

### **Exposure Limits**

Chemical	Exposure Limit
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-	None Established
dioxa-5,12-diazahexadecane-1,16-diyl	
bismethacrylate	
2,2'-ethylenedioxydiethyl dimethacrylate	None Established
Phosphorus pentoxide	None Established
2-[(2-methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-	None Established
1,3-dioxoisobenzofuran-5-carboxylate	
2-hydroxyethyl methacrylate	None Established



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3	
Dibenzoyl peroxide	5 mg/m <sup>3</sup> TWA OSHA PEL

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** In operations where exposure levels are exceeded, an approved dust/mist respirator or supplied air respirator should be used. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice.

**Hand protection:** Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

**Eye Protection:** Chemical safety goggles are recommended if contact is possible.

**Skin Protection:** Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

Hygiene measures: Suitable eye and skin washing facilities should be available in the work area.

### **Section 9. Physical and Chemical Properties**

**Appearance:** Base: paste of various **Odor:** Fruity ester-like

colors

Catalyst: white paste

Odor Threshold:Not availablepH:Not availableMelting/FreezingNot availableBoilingNot available

Point: Point/Range:

Flash Point: Not available Evaporation Not available

Rate:

Flammability: (Solid, Not applicable Flammability LEL: Not available

Gas) Limits: UEL: Not available

Vapor Pressure: Not available Vapor Not available

Density:

**Relative Density:** 1.5 - 1.8 **Solubilities:** Very slightly soluble

Partition Coefficient: Not available Autoignition Not available

(N-Octanol/Water) Temperature:

**Decomposition** Not available **Viscosity:** Not available

Temperature:

## Section 10. Stability and Reactivity

**Reactivity:** The product is not expected to be reactive.

**Chemical Stability:** Stable under normal storage and handling conditions. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

Conditions to avoid: Avoid excessive heat and sunlight.

Incompatible Materials: Oxidizing materials, reducing materials, initiators, peroxide (for base), amine

(for catalyst).



Hazardous decomposition products: None if stored normally.

## **Section 11. Toxicological Information**

### **Potential Health Effects:**

**Inhalation:** May cause respiratory irritation. Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

**Ingestion:** Swallowing may be irritating to mouth, throat and stomach.

Chronic Hazards: None known.

**Skin Sensitization:** No adverse effects expected. This product is classified as Grade I – weak sensitizer

in Kligman test.

**Respiratory Sensitization:** No data available. This product is not expected to cause respiratory

sensitization.

Germ Cell Mutagenicity: None of the components are mutagenic.

Carcinogen: None of the components are listed as a carcinogen or potential carcinogen by IARC, NTP,

ACGIH, or OSHA.

**Developmental / Reproductive Toxicity:** None of the components have been shown to cause

reproductive or developmental toxicity.

Specific Target Organ Toxicity (Single Exposure): Single exposure to this product may cause

respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): No data available.

**Aspiration Toxicity:** Not an aspiration hazard.

**Acute Toxicity Values:** 

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate:

LD50 Oral rat: >5000 mg/kg

2,2'-ethylenedioxydiethyl dimethacrylate: LD50 Oral rat: 10837 mg/kg

2-hydroxyethyl methacrylate: LD50 Oral rat: 5050 mg/kg; LD50 Dermal rabbit: >3000 mg/kg

Dibenzoyl peroxide: LD50 Oral rat: 7710 mg/kg; LC50 Inhalation rat: 7 mg/L/4hr

### **Section 12. Ecological Information**

#### Toxicity:

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate:

72 hr EC50 Desmodesmus subspicatus >0.6 mg/L; 48 hr EC50 Daphnia magna >1.2 mg/L

Phosphorus pentoxide: 72 hr Desmodesmus subspicatus 12.5 mg/L

2-hydroxyethyl methacrylate: 96 hr LC50 Pimephales promelas 227 mg/L

Dibenzoyl peroxide: 48 hr EC50 Daphnia magna 2.91 mg/L



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Persistence and degradability: Product is readily biodegradable.

### **Bioaccumulative Potential:**

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate: log  $P_{ow}$  3, potential of bioaccumulative is low.

2,2'-ethylenedioxydiethyl dimethacrylate: log Pow 1.88, potential of bioaccumulative is low.

2-hydroxyethyl methacrylate: log Pow 0.42, potential of bioaccumulative is low.

Dibenzoyl peroxide: log Pow 3.2, potential of bioaccumulative is low.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

### **Section 13. Disposal Considerations**

**Disposal:** For unused solution, flush thoroughly with large quantities of water into sewage disposal system in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.

**Container Disposal:** Rinse empty container thoroughly with water and discard clean, empty container as general trash or offer for recycling, if available.

## **Section 14. Transport Information**

	UN Number	UN Proper Shipping Name	Hazard	Packing	Environmental
			Class(s)	Group	Hazards
US DOT	None	Not Regulated	None	None	None
Canada	None	Not Regulated	None	None	None
TDG					
IMDG	None	Not Regulated	None	None	None
IATA/ICAO	None	Not Regulated	None	None	None

### Section 15. Regulatory Information

## **U.S. Federal Regulations:**

EPA SARA 311/312 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None.

**Protection Of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.



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**US EPA TSCA Inventory:** All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

## **Canadian Regulations:**

**Canadian Environmental Protection Act**: All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

**National Pollutant Release Inventory (NPRI):** This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI: None

## **International Inventories**

**Australia:** All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

**China:** All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

**Korea:** All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

**New Zealand:** All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

### **Section 16. Other Information**

NFPA Rating: Fire: 0 Health: 2 Instability: 0

Effective Date: June 4, 2019

Supersedes Date: November 21, 2014

Revision Summary: All Sections - New SDS format

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.