

**VULKEM 45 SSL BUFF QT CTG**

Version 3.0  
 REVISION DATE: 08/21/2014

Print Date 08/22/2014

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : **VULKEM 45 SSL BUFF QT CTG**

Product code : 445707A 333

COMPANY : Tremco Incorporated  
 3735 Green Road  
 Cleveland, OH 44122

Telephone : (216) 292-5000 8:30 - 5:00 EST  
 Emergency Phone : (216) 765-6727 8:30 - 5:00 EST  
 After Hours: Chemtrec 1-800-424-9300

Product use : Sealant

**SECTION 2 - HAZARDS IDENTIFICATION**

**Emergency Overview**

Buff. Non-sag gunnable paste. May cause slight irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause allergic respiratory sensitization. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

**Acute Potential Health Effects/ Routes of Entry**

Inhalation : May cause slight irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause allergic respiratory sensitization.

Eyes : Direct contact may cause mild irritation.

Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.

Skin : May cause sensitization resulting in irritation, itching and redness.

**Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

**Chronic Health Effects**

Overexposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect fetal development. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Fillers are encapsulated and not expected to be released from product under normal conditions of use. Prolonged or repeated exposure to mineral spirits (petroleum naphtha or stoddard solvent) may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney, and lung effects.

**Target Organs:** Skin, Eye, Ingestion, Lung

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**SECTION 3 - PRODUCT COMPOSITION**

<b>Chemical Name</b>	<b>CAS-No.</b>	<b>Weight %</b>
Polyurethane Polymer	NJ TSRN# 51721300-5358P	15.0 - 40.0
ASEP	70775-94-9	15.0 - 40.0
Calcium Carbonate (Limestone)	1317-65-3	15.0 - 40.0
Polyvinyl chloride	9002-86-2	15.0 - 40.0
Petroleum distillates	64742-47-8	5.0 - 10.0
Titanium dioxide	13463-67-7	1.0 - 5.0
Calcium oxide	1305-78-8	1.0 - 5.0
Xylene	1330-20-7	1.0 - 5.0
Isophorone Diisocyanate	4098-71-9	0.1 - 1.0
Ethylbenzene	100-41-4	0.1 - 1.0
Hydrotreated heavy naphthenic distillate	64742-52-5	0.1 - 1.0
Aluminum oxide	1344-28-1	0.1 - 1.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

- Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.
- Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

**SECTION 5 - FIRE FIGHTING MEASURES**

- Flash point : > 93 °C, > 199 °F
- Method : Setaflash Closed Cup
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Hydrocyanic acid and nitrogen oxides can form.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Use appropriate protective equipment. Avoid contact with material. Scrape up and transfer to appropriate container for disposal.

**SECTION 7 - HANDLING AND STORAGE**

Prevent inhalation of vapor, ingestion and contact with skin, eyes and clothing. Preferably use entire contents in one continuous work session. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling. Do not store or use near food. Keep container closed when not in use. Since emptied containers retain product residue and vapor, observe precautions even after container is emptied. Store under dry warehouse conditions away from heat and all ignition sources.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**
**Personal protection equipment**

- Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Use safety glasses if eye contact is likely.
- Skin and body protection : Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures : Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

**Exposure Limits**

Chemical Name	CAS Number	Regulation	Limit	Form
Calcium Carbonate (Limestone)	1317-65-3	OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA PEL:	15 mg/m3	Total dust.
		ACGIH TWA:	3 mg/m3	Respirable particles.
		ACGIH TWA:	10 mg/m3	Inhalable particles.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
Polyvinyl chloride	9002-86-2	ACGIH TWA:	1 mg/m3	Respirable fraction.
		OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
		OSHA TWA:	15 mg/m3	Total dust.
Stoddard solvent (Mineral Spirits)	8052-41-3	ACGIH TWA:	100 ppm	
		OSHA PEL:	2,900 mg/m3	

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<b>Chemical Name</b>	<b>CAS Number</b>	<b>Regulation</b>	<b>Limit</b>	<b>Form</b>
Titanium dioxide	13463-67-7	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
Calcium oxide	1305-78-8	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	2 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Total dust. Respirable fraction.
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 150 ppm 435 mg/m3	
Calcium Carbonate (Limestone)	1317-65-3	OSHA PEL: OSHA PEL: ACGIH TWA: ACGIH TWA: OSHA TWA: OSHA TWA:	5 mg/m3 15 mg/m3 3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Respirable particles. Inhalable particles. Total dust. Respirable fraction.
Polyvinyl chloride	9002-86-2	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	1 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3	Respirable fraction. Respirable fraction. Total dust. Respirable fraction. Total dust.
Petroleum distillates	64742-47-8	ACGIH TWA: hydrocarbon vapor ACGIH TWA: hydrocarbon vapor	200 mg/m3  200 mg/m3	Non-aerosol.as total  Non-aerosol.as total
Titanium dioxide	13463-67-7	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
Calcium oxide	1305-78-8	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	2 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Total dust. Respirable fraction.
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 150 ppm 435 mg/m3	
Isophorone Diisocyanate	4098-71-9	ACGIH TWA:	0.005 ppm	
Ethylbenzene	100-41-4	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 125 ppm 435 mg/m3	

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Hydrotreated heavy naphthenic distillate	64742-52-5	OSHA PEL: OSHA PEL: ACGIH TWA:	2,000 mg/m3 5 mg/m3 5 mg/m3	Mist. Inhalable fraction.
Aluminum oxide	1344-28-1	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA: ACGIH TWA:	10 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3 1 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction. Respirable fraction.
1,2,4-Trimethylbenzene	95-63-6	ACGIH TWA:	25 ppm	
Toluene	108-88-3	ACGIH TWA: OSHA TWA:	20 ppm 200 ppm	
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL: ACGIH TWA:	0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3 0.025 mg/m3	Respirable. Total dust. Total dust. Respirable fraction. Respirable fraction.
Methanol	67-56-1	ACGIH TWA: ACGIH STEL: OSHA PEL:	200 ppm 250 ppm 260 mg/m3	
Benzene	71-43-2	ACGIH TWA: ACGIH STEL: OSHA TWA:	0.5 ppm 2.5 ppm 10 ppm	
Vinyl chloride	75-01-4	ACGIH TWA:	1 ppm	
Naphthalene	91-20-3	ACGIH TWA: ACGIH STEL: OSHA PEL:	10 ppm 15 ppm 50 mg/m3	
Phenol	108-95-2	ACGIH TWA: OSHA PEL:	5 ppm 19 mg/m3	

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Non-sag gunnable paste
Color	: Buff
Odor	: Petroleum Solvent
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.

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Freezing point : Not available.  
 Boiling point/range : Not available.  
 Water solubility : Insoluble  
 Specific Gravity : 1.32  
 % Volatile Weight : 8 %

**SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid : Amines. Water or moisture and oxidizing agents. Alcohols. Strong acids. Strong bases.  
 Stability : Material is stable under normal storage, handling, and use.  
 Hazardous polymerization : Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Titanium dioxide, CAS-No.: 13463-67-7  
 Acute oral toxicity (LD-50 oral) 25,000 mg/kg ( Rat ) 5,000 mg/kg ( Rat ) 5,000 mg/kg ( Rat )  
 2,000 mg/kg ( Rat ) 11,000 mg/kg ( Rat )  
 Acute inhalation toxicity (LC-50) > 6.82 mg/l for 4 h ( Rat ) 3.43 mg/l for 4 h ( Rat ) 5.09 mg/l  
 for 4 h ( Rat ) > 2.28 mg/l for 4 h ( Rat ) > 3.56 mg/l for 4 h ( Rat )

Xylene, CAS-No.: 1330-20-7  
 Acute oral toxicity (LD-50 oral) 4,300 mg/kg ( Rat ) 1,590 mg/kg ( Mouse ) 6,670 mg/kg ( Rat )  
 3,523 - 8,600 mg/kg ( Rat ) 5,627 mg/kg ( Mouse )  
 Acute inhalation toxicity (LC-50) 6,350 mg/l for 4 h ( Rat ) 3,907 mg/l for 6 h ( Mouse ) 8,000  
 mg/l for 4 h ( Rat )

Isophorone Diisocyanate, CAS-No.: 4098-71-9  
 Acute oral toxicity (LD-50 oral) 2,500 mg/kg ( Mouse ) 1,000 mg/kg ( Rat )  
 Acute inhalation toxicity (LC-50) 0.033 mg/l for 4 h ( Rat ) 0.123 mg/l for 4 h ( Rat )  
 Acute dermal toxicity (LD-50 dermal) 1,060 mg/kg ( Rat )

Ethylbenzene, CAS-No.: 100-41-4  
 Acute oral toxicity (LD-50 oral) 5,460 mg/kg ( Rat ) 3,500 mg/kg ( Rat )  
 Acute dermal toxicity (LD-50 dermal) 17,800 mg/kg ( Rabbit )

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal Method : Waste not regulated under RCRA. Dispose of in compliance with state and local regulations.

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**SECTION 14 - TRANSPORTATION / SHIPPING DATA****CFR / DOT:**

Not Regulated

**TDG:**

Not Regulated

**IMDG:**

Not Regulated

**SECTION 15 - REGULATORY INFORMATION****North American Inventories:**

All components are listed or exempt from the TSCA inventory.  
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

**U.S. Federal Regulations:**

SARA 313 Components	:	Xylene	1330-20-7
		Ethylbenzene	100-41-4

SARA 311/312 Hazards	:	Acute Health Hazard
		Chronic Health Hazard
		Fire Hazard

## OSHA Hazardous Components :

Calcium Carbonate (Limestone)	1317-65-3
Polyvinyl chloride	9002-86-2
Stoddard solvent (Mineral Spirits)	8052-41-3
Titanium dioxide	13463-67-7
Calcium oxide	1305-78-8
Xylene	1330-20-7
Isophorone Diisocyanate	4098-71-9
Ethylbenzene	100-41-4
Hydrotreated heavy naphthenic distillate	64742-52-5
1,2,4-Trimethylbenzene	95-63-6
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Calcium Carbonate (Limestone)	1317-65-3
Polyvinyl chloride	9002-86-2
Petroleum distillates	64742-47-8
Titanium dioxide	13463-67-7
Calcium oxide	1305-78-8
Xylene	1330-20-7
Isophorone Diisocyanate	4098-71-9

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Ethylbenzene	100-41-4
Hydrotreated heavy naphthenic distillate	64742-52-5
Aluminum oxide	1344-28-1
1,2,4-Trimethylbenzene	95-63-6
Iodopropynyl butylcarbamate	55406-53-6
Toluene	108-88-3
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Methanol	67-56-1
Benzene	71-43-2
Vinyl chloride	75-01-4
Naphthalene	91-20-3
Phenol	108-95-2

OSHA Status: Considered : Irritant  
 hazardous based on the : Carcinogen  
 following criteria:

OSHA Flammability : IIIA

Regulatory VOC (less water and : 108 g/l  
 exempt solvent)

VOC Method 310 : 8.19 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:  
 Hydrotreated heavy naphthenic distillate 64742-52-5

**U.S. State Regulations:**

MASS RTK Components	: Calcium Carbonate (Limestone)	1317-65-3
	Petroleum distillates	64742-47-8
	Titanium dioxide	13463-67-7
	Calcium oxide	1305-78-8
	Xylene	1330-20-7
	Isophorone Diisocyanate	4098-71-9
Penn RTK Components	: Polyurethane Polymer	NJ TSRN# 51721300-5358P
	ASEP	70775-94-9
	Calcium Carbonate (Limestone)	1317-65-3
	Polyvinyl chloride	9002-86-2
	Petroleum distillates	64742-47-8
	Titanium dioxide	13463-67-7
	Calcium oxide	1305-78-8
	Xylene	1330-20-7
NJ RTK Components	: Polyurethane Polymer	NJ TSRN# 51721300-5358P
	ASEP	70775-94-9
	Calcium Carbonate (Limestone)	1317-65-3
	Polyvinyl chloride	9002-86-2
	Petroleum distillates	64742-47-8
	Titanium dioxide	13463-67-7
	Calcium oxide	1305-78-8
	Xylene	1330-20-7
	Hydrotreated heavy naphthenic distillate	64742-52-5

Components under California Proposition 65:



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WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm

**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	2
Flammability	2
Reactivity	0
PPE	

- 0 = Minimum
- 1 = Slight
- 2 = Moderate
- 3 = Serious
- 4 = Severe

**Further information:**

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

**Prepared by: Rich Mikol**

**Legend**

- ACGIH - American Conference of Governmental Hygienists
- CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
- DOT - Department of Transportation
- DSL - Domestic Substance List
- EPA - Environmental Protection Agency
- HMIS - Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- MSHA - Mine Safety Health Administration
- NDSL - Non-Domestic Substance List
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration

- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation and Recovery Act
- RTK - Right To Know
- SARA - Superfund Amendments and Reauthorization Act
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- V - Volume
- VOC - Volatile Organic Compound
- WHMIS - Workplace Hazardous Materials Information System

