

VULKEM 45 SSL WHITE QT CTG

 Version 2.0
 REVISION DATE: 07/08/2012

Print Date 12/06/2013

SECTION 1 - PRODUCT IDENTIFICATION

Trade name	:	VULKEM 45 SSL WHITE QT CTG
Product code	:	445806A 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

White. 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. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. 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

VULKEM 45 SSL WHITE QT CTG

Version 2.0

Print Date 12/06/2013

REVISION DATE: 07/08/2012

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
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
Stoddard solvent (Mineral Spirits)	8052-41-3	5.0 - 10.0
Titanium dioxide	13463-67-7	3.0 - 7.0
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
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	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 : Setflash 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).



VULKEM 45 SSL WHITE QT CTG

Version 2.0
 REVISION DATE: 07/08/2012

Print Date 12/06/2013

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	

VULKEM 45 SSL WHITE QT CTG

Version 2.0

Print Date 12/06/2013

REVISION DATE: 07/08/2012

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
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	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	: Non-sag gunnable paste
Color	: White
Odor	: Petroleum Solvent
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: Not available.
Water solubility	: Insoluble
Specific Gravity	: 1.32
% Volatile Weight	: 7 %

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

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)

VULKEM 45 SSL WHITE QT CTG

Version 2.0

Print Date 12/06/2013

REVISION DATE: 07/08/2012

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.

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 :

VULKEM 45 SSL WHITE QT CTG

Version 2.0

Print Date 12/06/2013

REVISION DATE: 07/08/2012

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
Aluminum oxide	1344-28-1

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

OSHA Flammability : IIIA

Regulatory VOC (less water and : 103 g/l
 exempt solvent)

VOC Method 310 : 7 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Hydrotreated heavy naphthenic distillate	64742-52-5
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7

U.S. State Regulations:

MASS RTK Components :	Calcium Carbonate (Limestone)	1317-65-3
	Stoddard solvent (Mineral Spirits)	8052-41-3
	Calcium oxide	1305-78-8
	Xylene	1330-20-7
	Isophorone Diisocyanate	4098-71-9
	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Benzene	71-43-2
	Vinyl chloride	75-01-4
	Phenol	108-95-2

Penn RTK Components :	Polyurethane Polymer	NJ TSRN# 51721300-5358P
	ASEP	70775-94-9
	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

NJ RTK Components :	Polyurethane Polymer	NJ TSRN# 51721300-5358P
	ASEP	70775-94-9
	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



VULKEM 45 SSL WHITE QT CTG

Version 2.0
 REVISION DATE: 07/08/2012

Print Date 12/06/2013

Hydrotreated heavy naphthenic distillate 64742-52-5
 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

Components under California Proposition 65:
 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

