

VULKEM 116 LIMESTONE

Version 3.0
REVISION DATE: 06/23/2014

Print Date 06/24/2014

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : **VULKEM 116 LIMESTONE**

Product code : 426805 323

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

Limestone. 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 contact/exposure to aromatic petroleum distillates may cause defatting, drying, and irritation of the skin, dermatitis, and central nervous system (CNS) effects. 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. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion, Lung

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
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Aromatic Polyisocyanate Resin	NJ TSRN# 51721300-5270P	30.0 - 60.0
Diisodecyl phthalate	26761-40-0	15.0 - 40.0
Calcium Carbonate (Limestone)	1317-65-3	10.0 - 30.0
Tackifier	NJ TSRN# 51721300-5272P	5.0 - 10.0
Heavy aromatic naphtha	64742-94-5	3.0 - 7.0
Thickener	NJ TSRN# 51721300-5300P	3.0 - 7.0
Titanium dioxide	13463-67-7	3.0 - 7.0
Inert filler	NJ TSRN# 51721300-5128P	3.0 - 7.0
4,4'-Methylene bis(phenylisocyanate)	101-68-8	0.1 - 1.0
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1.0
Polymethylene polyphenyl isocyanate	9016-87-9	0.1 - 1.0
Aluminum oxide	1344-28-1	0.1 - 1.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	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	:	Not available.
Method	:	Not available.
Burning rate	:	Non-flammable solid
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).

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

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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: 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.
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.
Inert filler	NJ TSRN# 51721300-5128P	ACGIH TWA: ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Respirable particles. Inhalable particles. Total dust. Respirable fraction. Total dust. Respirable fraction.
4,4'-Methylene bis(phenylisocyanate)	101-68-8	ACGIH TWA:	0.005 ppm	

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Chemical Name	CAS Number	Regulation	Limit	Form
1,2,4-Trimethylbenzene	95-63-6	ACGIH TWA:	25 ppm	
Polymethylene polyphenyl isocyanate	9016-87-9	ACGIH TWA:	0.005 ppm	
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.
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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	: Non-sag gunnable paste
Color	: Limestone
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	: 1.1344
% Volatile Weight	: 6 %

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

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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)

4,4'-Methylene bis(phenylisocyanate), CAS-No.: 101-68-8

Acute inhalation toxicity (LC-50) 0.369 mg/l for 4 h (Rat) 0.38 mg/l for 4 h (Rat)

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 : None present or none present in regulated quantities.

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

OSHA Hazardous Components :

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Diisodecyl phthalate	26761-40-0
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Titanium dioxide	13463-67-7
Inert filler	NJ TSRN# 51721300-5128P
4,4'-Methylene bis(phenylisocyanate)	101-68-8
1,2,4-Trimethylbenzene	95-63-6
Polymethylene polyphenyl isocyanate	9016-87-9
Aluminum oxide	1344-28-1
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7

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

OSHA Flammability : IIIA

Regulatory VOC (less water and : 70 g/l
 exempt solvent)

VOC Method 310 : 1.78 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:
 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

U.S. State Regulations:

MASS RTK Components	: Calcium Carbonate (Limestone)	1317-65-3
	Titanium dioxide	13463-67-7
	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Penn RTK Components	: Aromatic Polyisocyanate Resin	NJ TSRN# 51721300-5270P
	Diisodecyl phthalate	26761-40-0
	Calcium Carbonate (Limestone)	1317-65-3
	Tackifier	NJ TSRN# 51721300-5272P
	Heavy aromatic naphtha	64742-94-5
	Thickener	NJ TSRN# 51721300-5300P
	Titanium dioxide	13463-67-7
	Inert filler	NJ TSRN# 51721300-5128P
	2,4-Toluene diisocyanate	584-84-9
NJ RTK Components	: Aromatic Polyisocyanate Resin	NJ TSRN# 51721300-5270P
	Diisodecyl phthalate	26761-40-0
	Calcium Carbonate (Limestone)	1317-65-3
	Tackifier	NJ TSRN# 51721300-5272P
	Heavy aromatic naphtha	64742-94-5
	Titanium dioxide	13463-67-7
	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

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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

