

Version 2.0 Print Date 06/24/2014

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## **SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : VULKEM 116 GRAY

Product code : 426712 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**

Gray. 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. Diphenylmethane diisocyanate (methylene bisphenyl isocyanate) caused an increased incidence of lung tumors in experimental animals following long term inhalation at concentrations in excess of 100 times the exposure limit. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion, Lung



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## **SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
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.

: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get Inhalation

medical attention. Move to fresh air. If required, artificial respiration or administration

of oxygen can be performed by trained personnel.

Flush with water for at least 15 minutes while holding eye lids apart. Get medical Eye contact

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 Carbon monoxide and carbon dioxide can form. Hydrocyanic acid and

products

Use accepted fire fighting techniques. Wear full firefighting protective

nitrogen oxides can form.

Protective equipment for firefighters 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	<u>Limit</u>	<u>Form</u>
Calcium Carbonate	1317-65-3	OSHA PEL:	5 mg/m3	Respirable fraction.
(Limestone)		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.
Titanium dioxide	13463-67-7	ACGIH TWA:	10 mg/m3	
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.



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Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>
Inert filler	NJ TSRN#	ACGIH TWA:	3 mg/m3	Respirable particles.
	51721300-5128P	ACGIH TWA:	10 mg/m3	Inhalable particles.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
4,4'-Methylene bis(phenylisocyanate)	101-68-8	ACGIH TWA:	0.005 ppm	
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:	10 mg/m3	
		OSHA PEL:	5 mg/m3	Respirable fraction.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
		ACGIH TWA:	1 mg/m3	Respirable fraction.
Crystalline Silica	14808-60-7	OSHA TWA:	0.1 mg/m3	Respirable.
(Quartz)/ Silica Sand		OSHA TWA:	0.3 mg/m3	Total dust.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA PEL:	5 mg/m3	Respirable fraction.
		ACGIH TWA:	0.025 mg/m3	Respirable fraction.

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form : Non-sag gunnable paste

Color : Gray

Odor : Petroleum Solvent

: Not available. рΗ Vapour pressure : Not available. Vapor density : Heavier than air : Not available. Melting point/range Freezing point : Not available. Boiling point/range : Not available. Water solubility : Insoluble Specific Gravity : 1.1334 % Volatile Weight : 6 %

# **SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid : Amines.Water or moisture and oxidizing agents.Alcohols.Strong

acids.Strong bases.

# Material Safety Data Sheet



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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 )

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.





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**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:

Diisodecyl phthalate 26761-40-0 Calcium Carbonate (Limestone) 1317-65-3 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

exempt solvent) VOC Method 310

: 1.72 %

: 70 g/l

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 2,4-Toluene diisocyanate 584-84-9 Toluene-2,6-Diisocyanate 91-08-7

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



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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	0 = Minimum
Flammability	2	1 = Slight
Reactivity	0	2 = Moderate
PPE		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