

VULKEM 116 DARK BRONZE

Version 1.3 **REVISION DATE: 10/24/2007** Print Date 04/21/2010

SECTION 1 - PRODUCT IDENTIFICATION

Trade name Product code : VULKEM 116 DARK BRONZE : 426721 323

: Tremco Incorporated

COMPANY

Telephone Emergency Phone:	 3735 Green Road Cleveland, OH 44122 : (216) 292-5000 8:30 - 5:00 EST : (216) 765-6727 8:30 - 5:00 EST After Hours: Chemtrec 1-800-424-9300
Product use	: Sealant

Product use

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Bronze. 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. Carbon black is classified by IARC to be a known animal carcinogen and a possible human carcinogen (Group 2B). Carbon black is encapsulated by resin and not expected to have adverse effects unless made airborne. 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. 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

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	15.0 - 40.0
Tackifier	NJ TSRN# 51721300-5272P	5.0 - 10.0
Thickener	NJ TSRN# 51721300-5300P	3.0 - 7.0
Petroleum distillates	64742-47-8	1.0 - 5.0
Carbon Black	1333-86-4	- <1.0
Butyl benzyl phthalate	85-68-7	- <1.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	- <1.0
Toluene-2,6-Diisocyanate	91-08-7	- <0.1
2,4-Toluene diisocyanate	584-84-9	- <0.1
o-Cresol	95-48-7	- <0.1

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, g medical attention. Move to fresh air. If required, artificial respiration or administratic 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 Method Lower explosion limit	: :	150 年, 66 ℃ Tag Closed Cup 0.60 %(V) Solvent
Upper explosion limit	:	7 %(V) Solvent
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

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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.
Petroleum distillates	64742-47-8	ACGIH TWA:	200 mg/m3	Non-aerosolas total
		hydrocarbon vapor		
		ACGIH TWA:	200 mg/m3	Non-aerosolas total
		hydrocarbon vapor		
Carbon Black	1333-86-4	ACGIH TWA:	3.5 mg/m3	
Calbon Black	1333-00-4	OSHA PEL:	3.5 mg/m3	
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	•	Respirable fraction.
		OSHA TWA.	5 mg/m3	Nespirable Hacilon.



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Chemical Name	CAS Number	Regulation	<u>Limit</u>	Form
Crystalline Silica (Quartz)/	14808-60-7	OSHA TWA:	0.1 mg/m3	Respirable.
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.
Toluene-2,6-Diisocyanate	91-08-7	ACGIH TWA:	0.005 ppm	
		ACGIH STEL:	0.02 ppm	
2,4-Toluene diisocyanate	584-84-9	ACGIH TWA:	0.005 ppm	
-		ACGIH STEL:	0.02 ppm	
o-Cresol	95-48-7	ACGIH TWA:	5 ppm	
		OSHA PEL:	22 mg/m3	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	: Non-sag gunnable paste
Color	: Bronze
Odor	: PetroleumSolvent
рН	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: 280 ፑ, 138 ℃
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

Butyl benzyl phthalate, CAS-No.: 85-68-	-7
Acute oral toxicity (LD-50 oral)	13,500 mg/kg (Rat)
2,4-Toluene diisocyanate, CAS-No.: 584	1-84-9
Acute oral toxicity (LD-50 oral)	5,800 mg/kg (Rat)



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Acute inhalation toxicity (LC-50)

14 mg/l for 4 h $(\,Rat\,)\,10$ mg/l for 4 h $\,(\,Mouse\,)\,13$ mg/l for 4 h $(\,Guinea\ pig\,)\,11$ mg/l for 4 h $\,(\,Rabbit\,)$

o-Cresol, CAS-No.: 95-48-7 Acute oral toxicity (LD-50 oral)

> Acute inhalation toxicity (LC-50) Acute dermal toxicity (LD-50 dermal)

940 mg/kg (Rabbit) 1,800 mg/kg (Rabbit) 121 mg/kg (Rat) 344 mg/kg (Mouse) 1,350 mg/kg (Rat) 0.179 mg/l for 2 h (Mouse) 620 mg/kg (Rat) 890 mg/kg (Rabbit) 620 mg/kg (Mouse)

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

TDG / DOT Shipping Description:

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	: Non	e present or none present in r	egulated quantities.
SARA 311/312 Hazards	Chro	e Health Hazard nic Health Hazard Hazard	
OSHA Hazardous Componen	ts :		
Calcium Carbonate (Limeston Petroleum distillates Carbon Black Butyl benzyl phthalate Crystalline Silica (Quartz)/ Sili Toluene-2,6-Diisocyanate 2,4-Toluene diisocyanate o-Cresol	,	1317-65-3 64742-47-8 1333-86-4 85-68-7 14808-60-7 91-08-7 584-84-9 95-48-7	
OSHA Status: Considered hazardous based on the following criteria:		nt itizer inogen	
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1317-65-3

64742-47-8

14808-60-7

91-08-7

95-48-7

584-84-9

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OSHA Flammability	:	IIIA	
Regulatory VOC (less water and exempt solvent)		:	79 g/l
VOC Method 310		:	2 %
Chemical is listed as an IARC, NT Carbon Black Butyl benzyl phthalate Crystalline Silica (Quartz)/ Silica			A, or ACGIH Carcinogen: 1333-86-4 85-68-7 14808-60-7
U.S. State Regulations:			

MASS RTK Components : Calcium Carbonate (Limestone) Petroleum distillates Crystalline Silica (Quartz)/ Silica Sand Toluene-2,6-Diisocyanate 2,4-Toluene diisocyanate o-Cresol

Penn RTK Components Aromatic Polyisocyanate Resin Diisodecyl phthalate Calcium Carbonate (Limestone) Tackifier Thickener Petroleum distillates 2,4-Toluene diisocyanate NJ RTK Components Aromatic Polyisocyanate Resin Diisodecyl phthalate Calcium Carbonate (Limestone) Tackifier Thickener Petroleum distillates Carbon Black Butyl benzyl phthalate

NJ TSRN# 51721300-5270P 26761-40-0 1317-65-3 NJ TSRN# 51721300-5272P NJ TSRN# 51721300-5300P 64742-47-8 584-84-9

NJ TSRN# 51721300-5270P 26761-40-0 1317-65-3 NJ TSRN# 51721300-5272P NJ TSRN# 51721300-5300P 64742-47-8 1333-86-4 85-68-7 14808-60-7

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

Crystalline Silica (Quartz)/ Silica Sand

1333-86-4	Carbon Black
85-68-7	Butyl benzyl phthalate
14808-60-7	Crystalline Silica (Quartz)/ Silica Sand
91-08-7	Toluene-2,6-Diisocyanate
584-84-9	2,4-Toluene diisocyanate
100-41-4	Ethylbenzene



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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

Legend	
ACGIH - American Conference of Governmental Hygienists	PEL - Permissible Exposure Limit
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act	RCRA - Resource Conservation and Recovery Act
DOT - Department of Transportation	RTK - Right To Know
DSL - Domestic Substance List	SARA - Superfund Amendments and Reauthorization Act
EPA - Environmental Protection Agency	STEL - Short Term Exposure Limit
HMIS - Hazardous Materials Information System	TLV - Threshold Limit Value
IARC - International Agency for Research on Cancer	TSCA - Toxic Substances Control Act
MSHA - Mine Safety Health Administration	TWA - Time Weighted Average
NDSL - Non-Domestic Substance List	V - Volume
NIOSH - National Institute for Occupational Safety and Health	VOC - Volatile Organic Compound
NTP - National Toxicology Program	WHMIS - Workplace Hazardous Materials Information System
OSHA - Occupational Safety and Health Administration	