



**VULKEM 346 GRAY**

Version 4.0  
REVISION DATE: 07/08/2012

Print Date 07/09/2012

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name	:	VULKEM 346 GRAY
Product code	:	874712 805
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	:	Coating

**SECTION 2 - HAZARDS IDENTIFICATION**

**Emergency Overview**

Gray. Liquid. May cause drowsiness, weakness, and fatigue. Vapor and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system. May cause allergic respiratory sensitization. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

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

Inhalation	:	May cause drowsiness, weakness, and fatigue. Vapor and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system. May cause allergic respiratory sensitization.
Eyes	:	Vapor and/or mist may cause eye irritation.
Ingestion	:	May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.
Skin	:	May cause sensitization resulting in irritation, itching and redness.

**Aggravated Medical Conditions**

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

**Chronic Health Effects**

Overexposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. Repeated overexposure to vapors and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment are used. 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. Prolonged and repeated exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) or the covering of the lungs (pleural thickening). Fillers are encapsulated and not expected to be released from product under normal conditions of use.

**Target Organs:** Eye, Lung, Liver, Kidney, Skin, Nerve



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**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Polyurethane Polymer	NJ TSRN# 51721300-5379P	30.0 - 60.0
Xylene	1330-20-7	15.0 - 40.0
Talc	14807-96-6	10.0 - 30.0
Titanium dioxide	13463-67-7	10.0 - 30.0
Ethylbenzene	100-41-4	5.0 - 10.0
Amorphous silica	7631-86-9	1.0 - 5.0
Aluminum oxide	1344-28-1	0.1 - 1.0
Isophorone Diisocyanate	4098-71-9	0.1 - 1.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

- Inhalation : Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
- Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- Skin contact : Wash area of contact thoroughly with hand cleaner followed by 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 : 80 °F, 27 °C
- 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. Smoke, fumes. 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).
- Fire and explosion conditions : Product may ignite if heated in excess of its flash point. Closed container, may burst when exposed to extreme heat. Empty containers may contain ignitable vapors. Vapors may travel to sources of ignition and flashback.



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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

**SECTION 7 - HANDLING AND STORAGE**

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Change soiled work clothes frequently. Clean hands thoroughly after handling. Do not smoke, weld, generate sparks, or use flame near container. To prevent generation of static discharges, use bonding/grounding connection when pouring liquid. Extinguish all ignition sources including pilot lights, non-explosion proof motors and electrical equipment until vapors dissipate. 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 respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Select positive pressure supplied air respirator (TC19C or equivalent) for isocyanates.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Prevent contact with shoes and clothing.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

**Exposure Limits**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 150 ppm 435 mg/m3	
Talc	14807-96-6	ACGIH TWA: OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL:	2 mg/m3 0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Respirable. Total dust. 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.

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Ethylbenzene	100-41-4	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 125 ppm 435 mg/m <sup>3</sup>	
Amorphous silica	7631-86-9	ACGIH TWA: ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA:	3 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 0.8 mg/m <sup>3</sup>	Respirable particles. Inhalable particles. Total dust. Respirable fraction.
Aluminum oxide	1344-28-1	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA: ACGIH TWA:	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup> 15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>	Respirable fraction. Total dust. Total dust. Respirable fraction. Respirable fraction.
Isophorone Diisocyanate	4098-71-9	ACGIH TWA:	0.005 ppm	

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Liquid
Color	: Gray
Odor	: Aromatic
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: >250 °F, 121 °C
Water solubility	: Negligible
Specific Gravity	: 1.17
% Volatile Weight	: 27 %

**SECTION 10 - REACTIVITY / STABILITY**

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

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Xylene, CAS-No.: 1330-20-7



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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 )

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 )

Amorphous silica, CAS-No.: 7631-86-9	
Acute oral toxicity (LD-50 oral)	22,500 mg/kg ( Rat ) 15,000 mg/kg ( Mouse )

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 )

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

RCRA Class : D001: Reportable Quantity = 100 lbs. (Characteristic of ignitability)

This classification applies only to the material as it was originally produced.

Disposal Method : Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in compliance with federal, state and local regulations.

**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**CFR / DOT:**

UN1263, Paint, 3, PG III

**TDG:**

UN1263, PAINT, 3, PG III

**IMDG:**

UN1263, PAINT, 3, PG III

**Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

**SECTION 15 - REGULATORY INFORMATION**

North American Inventories:

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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  
Fire Hazard

## OSHA Hazardous Components :

Xylene 1330-20-7  
Talc 14807-96-6  
Titanium dioxide 13463-67-7  
Ethylbenzene 100-41-4  
Amorphous silica 7631-86-9  
Aluminum oxide 1344-28-1  
Isophorone Diisocyanate 4098-71-9

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

OSHA Flammability : IC

Regulatory VOC (less water and : 317 g/l  
exempt solvent)

VOC Method 310 : 27 %

**U.S. State Regulations:**

MASS RTK Components : Xylene 1330-20-7  
Talc 14807-96-6  
Titanium dioxide 13463-67-7  
Ethylbenzene 100-41-4  
Amorphous silica 7631-86-9  
Isophorone Diisocyanate 4098-71-9  
Benzene 71-43-2  
Chromium 7440-47-3  
Beryllium 7440-41-7  
Arsenic 7440-38-2  
Nickel 7440-02-0

Penn RTK Components : Polyurethane Polymer NJ TSN# 51721300-5379P  
Xylene 1330-20-7  
Talc 14807-96-6  
Titanium dioxide 13463-67-7  
Ethylbenzene 100-41-4  
Amorphous silica 7631-86-9

NJ RTK Components : Polyurethane Polymer NJ TSN# 51721300-5379P  
Xylene 1330-20-7  
Talc 14807-96-6  
Titanium dioxide 13463-67-7



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Ethylbenzene  
Amorphous silica

100-41-4  
7631-86-9

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	3
Reactivity	1
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