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SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION

Product Information

Trade name : VULKEM 801 GRAY 5 GAL

Product code : 891712 805

Supplier : Tremco Canada division

220 Wicksteed Avenue Toronto, ON M4H 1G7

Telephone : (416) 421-3300 Emergency Phone: : (613) 996-6666

Product use : Coating

Preparation Information

Prepared by: : Sewnauth Raghunandan

Date: : 05/07/2008 Telephone : (416) 421-3300

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Aluminum/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 butyl benzyl phthalate may cause reduced body weights and adverse effects on the liver, kidney, spleen, pancreas, and reproductive organs. 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. Di(2-ethylhexyl) phthalate, (dioctyl phthalate) given in the diet, produced increased incidence of liver cancers in female rats and male and female mice. An increased incidence of liver cancers or neoplasms were observed in male rats. A long-term NTP study



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showed that oral exposure to toluene diisocyanate (TDI) caused cancer in rats and mice. A lifetime inhalation study sponsored by the International Isocyanate Institute did not show carcinogenic activity in rats. May cause allergic skin and respiratory sensitization. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

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

SECTION 3: HAZARDOUS INGREDIENTS

CAS-No.	Weight % Range
85-68-7	15.0 - 40.0
1305-78-8	3.0 - 7.0
13463-67-7	3.0 - 7.0
7429-90-5	1.0 - 5.0
101-68-8	1.0 - 5.0
117-81-7	0.1 - 1.0
14808-60-7	0.1 - 1.0
584-84-9	0.1 - 1.0
	85-68-7 1305-78-8 13463-67-7 7429-90-5 101-68-8 117-81-7 14808-60-7

The ingredients listed above are hazardous as defined in the controlled products regulation. (CPR).

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Move to fresh air. If required, artificial respiration or administration of oxygen can be Inhalation

performed by trained personnel. Leave area to breathe fresh air. Avoid further

overexposure. If symptoms persist, get medical attention.

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

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 / EXPLOSION HAZARDS

Flash point > 100 °C, > 212 °F Method Not available. Lower explosion limit Not available. Upper explosion limit Not available. Not available. Autoignition temperature

Extinguishing media If water fog is ineffective, use carbon dioxide, dry chemical or foam.

Hazardous combustion Carbon monoxide and carbon dioxide can form. Smoke,

products fumes. Hydrocyanic acid and nitrogen oxides can form.

Use accepted fire fighting techniques. Wear full firefighting protective Protective equipment for

firefighters clothing, including self-contained breathing apparatus (SCBA).

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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.

SECTION 6 - SPILLS / LEAKS / 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 - PREVENTIVE MEASURES/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

Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>	-
Butyl benzyl phthalate	85-68-7				-
Calcium oxide	1305-78-8	Ontario TWA: ACGIH TWA:	2 mg/m3 2 mg/m3		
Titanium dioxide	13463-67-7	Ontario TWA: ACGIH TWA:	10 mg/m3 10 mg/m3	Total dust.	



Material Safety Data Sheet



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Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>
Aluminum	7429-90-5	Ontario TWA:	10 mg/m3	Dust.
		Ontario TWA:	5 mg/m3	Dust.
		Ontario TWA:	5 mg/m3	Welding fume.as Al
		ACGIH TWA:	10 mg/m3	Dust.
		ACGIH TWA:	5 mg/m3	Pyrophoric powder.as
		Al		
4,4'-Methylene	101-68-8	Ontario TWA:	0.005 ppm	
bis(phenylisocyanate)	101 00 0	ACGIH TWA:	0.005 ppm	
Dis(prioriyiioosyariato)		7.001171777.	0.000 ppm	
Dioctyl phthalate	117-81-7	Ontario TWA:	3 mg/m3	
		Ontario STEL:	5 mg/m3	
		ACGIH TWA:	5 mg/m3	
Crystalline Silica (Quartz)/	14808-60-7	Ontario TWA:	0.10 mg/m3	Respirable fraction.
Silica Sand	14000 00 7	ACGIH TWA:	0.025 mg/m3	Respirable fraction.
Siliod Garia		7.001171777.	0.020 mg/mo	recopilable fraction.
2,4-Toluene diisocyanate	584-84-9	ACGIH TWA:	0.005 ppm	
		ACGIH STEL:	0.02 ppm	
		Ontario TWA:	0.005 ppm	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid Form : Liquid

Color : Aluminum/Gray Odor : Solvent odor : Not available. рΗ Vapour pressure : Not available. : Heavier than air Vapor density Melting point/range : Not available. Freezing point : Not available. Boiling point/range : Not available. : Negligible Water solubility **Evaporation Rate:** : Not available.

Specific Gravity : 1.39 % Volatile Weight : 3 %

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.



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SECTION 11 - TOXICOLOGICAL INFORMATION

Butyl benzyl phthalate, CAS-No.: 85-68-7

Acute oral toxicity (LD-50 oral) 13,500 mg/kg (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)

Dioctyl phthalate, CAS-No.: 117-81-7

Acute oral toxicity (LD-50 oral) 25,000 mg/kg (Rat) 30,000 mg/kg (Mouse) 33,900 mg/kg

(Rabbit) 26,300 mg/kg (Guinea pig)

Acute dermal toxicity (LD-50 dermal) 10,000 mg/kg (Guinea pig) 25,000 mg/kg (Rabbit)

2,4-Toluene diisocyanate, CAS-No.: 584-84-9

Acute oral toxicity (LD-50 oral) 5,800 mg/kg (Rat)

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)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Disposal Method : Dispose as hazardous waste according to all local, state, federal and provincial

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.

Canadian Regulations:

WHMIS Classification : D2A, D2B

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Other Regulations:

Regulatory VOC (less water and : 49 g/l

exempt solvent)





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SECTION 16 - OTHER INFORMATION

HMIS Rating:

Health	1	0 = Minimum
Flammability	1	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: Sewnauth Raghunandan

Legend

ACGIH - American Conference of Governmental Hygienists OSHA - Occupational Safety and Health Administration

DOT - Department of Transportation PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act DSL - Domestic Substance List

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 TWA - Time Weighted Average

MSHA - Mine Safety Health Administration NDSL - Non-Domestic Substance List V - Volume

VOC - Volatile Organic Compound NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program WHMIS - Workplace Hazardous Materials Information System



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