

(11115)

Material Safety Data Sheet



VULKEM 801 GRAY-5 GAL

Version 2.0
REVISION DATE: 07/07/2012

Print Date 10/29/2014

SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION

Product Information

Trade name : VULKEM 801 GRAY-5 GAL
Product code : 891712A 805

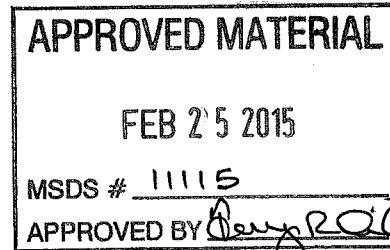
Supplier : Tremco Canada division
220 Wicksteed Avenue
Toronto, ON M4H 1G7

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

Product use : Coating

Preparation Information

Prepared by: : Sewnauth Raghunandan
Date: : 07/07/2012
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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. 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. A long-term NTP study 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.

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

SECTION 3 : HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Weight % Range
Titanium dioxide	13463-67-7	3.0 - 7.0
Aluminum	7429-90-5	1.0 - 5.0
Calcium oxide	1305-78-8	1.0 - 5.0
Propylene carbonate	108-32-7	1.0 - 5.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1.0
4,4'-Methylene bis(phenylisocyanate)	101-68-8	0.1 - 1.0
Hydrotreated heavy naphthenic distillate	64742-52-5	0.1 - 1.0
2,4-Toluene diisocyanate	584-84-9	0.1 - 1.0

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.

- 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 / EXPLOSION HAZARDS

- Flash point : > 100 °C, > 212 °F
- 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 : Closed container, may burst when exposed to extreme heat. This product not expected to ignite under normal conditions of use.

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SECTION 6 - SPILLS / LEAKS / ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

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. Store under normal warehouse conditions in sealed containers.

SECTION 8 - PREVENTIVE MEASURES/EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment

- Respiratory protection : Use full engineering controls before relying on personal protective equipment. Wear appropriate, properly fitted air purifying respirator with combination particulate filter and vapor/gas removing cartridge when airborne contaminant level(s) exceed exposure limits indicated on the MSDS, or product is spray applied.
- 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	Limit	Form
Titanium dioxide	13463-67-7	Ontario TWAEV: ACGIH TWA:	10 mg/m3 10 mg/m3	Total dust.
Aluminum	7429-90-5	Ontario TWAEV: Ontario TWAEV: Ontario TWAEV: ACGIH TWA:	10 mg/m3 5 mg/m3 5 mg/m3 1 mg/m3	Dust. Dust. Welding fume.as Al Respirable fraction.
Calcium oxide	1305-78-8	Ontario TWAEV: ACGIH TWA:	2 mg/m3 2 mg/m3	
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	Ontario TWAEV: ACGIH TWA:	0.10 mg/m3 0.025 mg/m3	Respirable fraction. Respirable fraction.
4,4'-Methylene bis(phenylisocyanate)	101-68-8	Ontario TWAEV: ACGIH TWA:	0.005 ppm 0.005 ppm	

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Chemical Name	CAS Number	Regulation	Limit	Form
Hydrotreated heavy naphthenic distillate	64742-52-5	Ontario TWAEV:	1,600 mg/m ³	
		Ontario TWAEV:	5 mg/m ³	Mist.
		Ontario STEV:	10 mg/m ³	Mist.
		ACGIH TWA:	5 mg/m ³	Inhalable fraction.
2,4-Toluene diisocyanate	584-84-9	ACGIH TWA:	0.005 ppm	
		ACGIH STEL:	0.02 ppm	
		Ontario TWAEV:	0.005 ppm	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Form	: Liquid
Color	: Aluminum/Gray
Odor	: Aliphatic 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	: Negligible
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.

SECTION 11 - TOXICOLOGICAL INFORMATION

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)
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)



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SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Disposal Method : Recycle or dispose of in compliance with local, provincial and federal regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG:

Not Regulated

CFR / DOT:

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.

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 exempt solvent) : 47 g/l



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SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	1
Flammability	1
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: Sewnauth Raghunandan

Legend

- ACGIH - American Conference of Governmental Hygienists
- 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
- 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