SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

					•	
Product Identifier				[WHMIS C	lassification	
Vermiculite				Not App	olicable	
Product Use						
Insulating aggregate, Soil condi	itioner, Lo	w density filler, Absort	pent			
Distributors Name			Supplier's Name			
Uline Shipping Supplies						
Street Address			Street Address			
12575 Uline Dr.						
City		State	City		.,	Province
Pleasant Prairie		WI				
Postal Code	Emergency Te		Postal Code		Emergency T	elephone
53158	1-800-424	-9300 (CHEMTREC)				
Date MSDS Prepared			J	Phone Nur		
9-30-2013				262-612	2-4200	
SECTION 2 — HAZARD Route of Entry Skin Contact Emergency Overview Product is tan flakes, granules respiratory tract. Wear approparea. Pick up released producin appropriate containers for doperations may be contaminat collected material to be non-hawants symbols Not Regulated	Skin About or powderiate person twith appropriate sposal. Alled and sh	esorption Eye Contact T with no odor. Dusts T wit	may cause irritation of ent. Keep individuals not return to original conself is non-hazardous, mardous unless specific	ot involve tainer if re aterial co testing, in	d in the cle eusable. If ollected dur ncluding TO	anup out of the not reusable, place ing clean up CLP, shows the
Potential Health Effects	•					
No specific long term health et inert particulates, inhalation of may cause a benign pneumoc	high cond					
Prolonged exposure to respiral Symptoms may include, cough pulmonary illness. The onset of several years and is accompainable accompanies and carcinogen (2A) by the reasonably anticipated to cause	n, shortnes of sympton nied by ch Internations se cancer	es of breath, wheezing ns, except in cases of anges in the x-ray pic anal Agency for Resea in humans by the Nati	g, decrease in pulmonar massive exposures, is ture of lungs. Crystalline irch on Cancer (IARC) a onal Toxicology prograr	y function usually go silica ha nd as a s n.	n, and recu radual over as been list substance t	rring non-specific a period of ed a potential hat can be
Pre-existing lung and skin con	aitions ma	ny possibly be aggrava	ated by exposure to the	compone	nts of the p	product.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	%	CAS Number	LD ₅₀ of Ingredient (specify species and route)	LC 50 of Ingredient (specify species)	OSHA PEŁ (mg/m3)	ACGIH TLV (mg/m3)
Vermiculite (Magnesium, Aluminum Iron Silicate)	>98	1318-00-9	Not Available	Not Available	10	1
Silica	≈1	14808-60-7	Not Available	Not Available	Not Available	.05

SECTION 4 — FIRST AID MEASURES

	- · · · · · · · · · · · · · · · · · · ·	
Skin Contact Wash thoroughly with mild soap and wat and launder thoroughly before reuse.	er. Seek medical attention if irritation develo	ps. Remove any contaminated clothing
•	utes holding the eyelids wide open. Seek m	edical attention if irritation develops.
Remove exposed person to fresh air. If be respiration should be started immediately	oreathing is difficult, oxygen may be adminis y. Seek medical attention.	tered. If breathing has stopped, artificial
Not expected to be an important route of attention.	entry into the body. If large amounts of the	product are ingested, seek medical
SECTION 5 — FIRE FIGHTING	MEASURES	
Flammable Yes No	It yes, under which conditions?	
Means of Extinction Use extinguishing media appropriate for s	urrounding material.	
Flashpoint (*C) and Method Not Available	Upper Hammable Limit (% by volume) Not Available	Not Available
Auto ignition Temperature (°C)	Explosion Data — Sensitivity to Impact	Explosion Data — Sensitivity to Static Discharge
Not Available	Not Available	Not Available
Hazardous Combustion Products Not Available		
NFPA Health: 1, Flammability: 0, Reactivity: 0, C	Other: None	
SECTION 6 — ACCIDENTAL RE	ELEASE MEASURES	
Pick up released product with appropriat appropriate containers for disposal. Approclean up operations. Although the productions.	e implements and return to original containe opriate personal protective equipment cited at itself is non-hazardous, material collected nazardous unless specific testing, including	in Section 8 should be worn during all during clean up operations may be
SECTION 7 — HANDLING AND	STORAGE	
Appropriate personal protective equipment of	ited in Section 8 should be wom during handling to clean up any dusts that may be generated du before eating, drinking or smoking.	•
Storage Requirements		
Do not store with or near incompatible mater	rials cited in Section 10. Store in tightly closed co ses should be employed to prevent the generation	

SECTION 8 — EX	POSURE COM	NTROL / PE	RSONAL PE	ROTECTION	NC	•
Exposure Limits		OSHA PEL	Other (specify)			
Specific Engineering Controls (suc		, , , , , , , , , , , , , , , , , , ,	W	7,0,0,0		
of 10 mg/M^3 for total	particulates and 3 I in the latest edition Industrial Ventilation Industrial Ventilation	mg/M^3 for res on of "Industrial on, P.O. Box 10	spirable particula Ventilation: A m 6153 Lansing, M	ites. Design of anual of Rec I 48910. The	details for local ommended Pra need for local	ectices" published by the exhaust ventilation
Personal Protective Equipment	☑ Gloves 〔	X Respirator	⊠ Eye	Footwear		☐ Other
If checked, please specity type	MARKAN, LOCALIZATION OF THE PROPERTY OF THE PR				<u> </u>	
Gloves: Polymeric glorecommended.	ves are recommen	ded to prevent	possible irritation	n. PVC or sin	nilar constructio	on materials are
above, use, as a minir	num, a NIOSH app ot less than 0.05 m equipment supplier	proved1/2 face g/M^3. If expos r or a profession	piece respirator sures may excee nal industrial hyg	with cartridge d 10 times th pienist for sel	es approved for ne limit cited in t ection of the pro	
Eye: Chemical protect glasses with side shiel				possibility of	eye contact wit	h the product. Safety
Clothing: A polymeric clothing becoming con thoroughly cleaned an	ntaminated with the					
SECTION 9 — PHY	SICAL AND (CHEMICAL	PROPERTIE	:S		
Physical State		Odor and Appearance			Odor Threshold (ppm)	
Solid Specific Gravity		Tan Flakes, G	Franules, or Pow	der.	None	
(Bulk) 0.66-0.96 g/cc		N/A	')		Vapor Pressure (mm) N/A	ng)
Evaporation Rate		Boiling Point (* C)			Freezing Point (* C)	

S

Physical State	Odor and Appearance	Odor Threshold (ppm)
Solid	Tan Flakes, Granules, or Powder.	None
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
(Bulk) 0.66-0.96 g/cc	N/A	N/A
Evaporation Rate	Boiling Point (°C)	Freezing Point (° C)
N/A	Not Determined	N/A
рн	Coefficient of Water/Oil Distribution	[Solubility in Water]
N/A	N/A	<1 %

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability			If no, under which conditions?
	⊠Yes	□ №	
Incompatibility with	Other Substances		If yes, which ones?
	⊠Yes	□и∘	Do not store with strong acids, or reducing agents.
Reactivity and unc	er what conditions?		
		foliation reaction	on with a resultant large increase in volume at approximately 300°.
Hazardous Decom	position Products		
None that a	re known. Prod	luct is stable to	at least 2400° F.

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	
	ed to excessive amount of vermiculite. Skin contact may aggravate inuous exposure may aggravate existing asthmatic or respiratory
Effects of chronic exposure	
	est may cause a simple pneumoconiotic condition, not normally of long-term exposure to extremely high levels of dust, complicated
Imtancy of Product	
N/A	
Skin sensibzation	Respiratory sensibization
N/A	N/A
Cardinogenicity-IARC	Carcinogenicity - ACGIH
N/A	N/A
Reproductive toxicity	l eratogenicity
N/A	N/A
Embroloxicity	Mutagenicity
N/A	N/A
Name of synergistic products/effects	
N/A	

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic Toxicity

In vitro ecotoxicity studies conducted on aqueous extracts of the product under the auspices of the South African Department of Water Affairs and Forestry in 1998 indicated that the product most probably is not toxic to the environment. In each of the ecotoxicity tests cited below, 50 grams of the product were extracted with a liter of distilled water. The resulting solution was used to derive the toxicity parameters. The 48 hour EC_0 and EC_{50} (Daphnia pulex lethality) were determined to be >50 milligrams of extract per liter (mg/l). The 72 hour EC_0 and EC_{50} (algal, Selenastrum capricornutum, growth inhibition) were determined to be >50 mg/l. The 72 hour EC_0 and EC_{50} (bacterial, Pseudomonas putida, growth inhibition) were determined to be >50 mg/l. The 48 hour EC_0 and EC_{50} (frog, Xenopus laevis, embryo lethality) were determined to be >50 mg/l.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

As prepared, product is considered non-hazardous. It should be disposed of in and EPA approved landfill in accordance with all local, state and federal regulations. If used or waste product is disposed of testing, including TCLP, should be conducted to determine hazard characteristics. Empty containers will contain product residues. Observe proper safety and handling precautions. Do not allow empty containers or packaging to be used for any purpose except to store and ship original product.

SECTION 14 —	TRANSPORT INFORMATION

Special Տիմբբուց Information	,		
Not currently regulated under Depa	artment of Transportation regulations.		*•
/ 1/2/1/2/	**************************************	PIN	
		N/A	
TDG	DOT		
N/A	N/A		
ТМО	ICAO		
N/A	N/A		

SECTION 15 — REGULATORY INFORMATION

WHMIS Classification	OSHA
Not Controlled	Imitant, Lung Hazard, Skin Hazard, Eye Hazard.
SERA	TSC
Acute Hazard.	Not Listed
	ified in accordance with the hazard criteria of the and the SDS contains all of the information required by CPR.

SECTION 16 — OTHER INFORMATION

Notice: This information relates only to the material designated and may not be valid for such material used in combination with any other materials or in any process. All statements, information and data provided are believed to be accurate and reliable, but are presented without any guarantee, representation, warranty or responsibility of any kind, expressed or implied. Any and all representations and/or warranties of merchantability of fitness for a particular purpose are specifically disclaimed. Users should make their own investigations as to the suitability of the information or product for their particular purpose. Nothing in this document is intended as permission, inducement or recommendation to violate any laws or practice any invention covered by existing patents, copyrights or inventions. We do not accept any liability for any loss or damage that may occur from the use of this information.