Vermiculite



SAFETY DATA SHEET - 16 Sections

The Schundler Company

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier WHMIS CLASSIFICATION:

Product Identifier			WHMIS CLASSIFICAT	TION:
Expanded Vermiculite (All Gra	ades)		Not Applicable	
Product Use Light weight aggregate, Hortic	ultural ag	gregate, Insulation	, Packing Material,	Absorbent
Manufacturer's Name The Schundler Company			Supplier's Name	
Street Address 150 Whitman Avenue			Street Address	
City, State Edison, NJ			City	Province
Postal Code 08817	Emergency T 732-287-2		Postal Code	Emergency Telephone
Date SDS Prepared August 3, 2015		SDS Prepared By Schundler Consult	ing	Phone Number 732-287-2244
SECTION 2 - HAZARDS	DENT	IFICATION		
Route of Entry Skin Contact			Eye Contact Inh	alation
area. Pick up released product vin appropriate containers for dis	with appro posal. Alth d and sho	priate implements a nough the product it uld be treated as ha	ind return to original self is non-hazardou izardous unless spe	als not involved in the cleanup out of the container if reusable. If not reusable, place us, material collected during clean up cific testing, including TCLP, shows the to present an environmental hazard.
Potential Health Effects				
Skin: Not absorbed by the sk	kin. But ma	y cause dryness if pr	olonged exposure.	•
Eye: May cause irritation (te	ear formatio	n and redness) if dus	st gets in eyes.	
Inhalation: No specific long terr true of all nuisance or inert parti prolonged periods of time may o	iculates, in	halation of high cor	ncentrations of verm	-free and/or silica free-vermiculite. As is iculite dusts and/or particulates over
Symptoms may include, cough,	shortness symptoms hanges in ional Agen	s of breath, wheezin s, except in cases o the x-ray picture of acy for Research on	g, decrease in pulm f massive exposure: lungs. Crystalline sil Cancer (IARC) and	ive, disabling lung disorder (silicosis). onary function, and recurring non-specific s, is usually gradual over a period of several ica has been listed a potential human as a substance that can be ogram.
Pre-existing lung and skin cond	litions may	possibly be aggrav	ated by exposure to	the components of this product.
Ingestion: Ingestion of small to m stomach.	oderate qu	antities is not conside	ered harmful, but may	cause irritation of the mouth, throat and

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 PEL (mg/m3)	ACGIHTLV (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 water. Seek medical attention if irritation develops. Remove any contaminated clothing and launder thoroughly before reuse.
Eye Contact Flush eyes with generous quantities of water or eye rinse solution Consult physician if irritation persists.
Inhalation Remove to fresh air. Blow nose to evacuate dust If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention
Ingestion Drink generous amounts of water to reduce bulk and drying effects.

SECTION 5 - FIRE FIGHTING MEASURES

			JOI1EO	
Flammable	Yes	™ No		
Means of Extin	ction			
Flashpoint (°C	and Method	Upper Fl None	ammable Limit (% by volume)	Lower Flammable Limit (% by volume) None
	emperature (°C)		n Data—Sensitivity to Impact	Explosion Data—Sensitivity to Static Discharge N/A
	mbustion Products			
NFPA Health: 1	Flammability: 0	Reactivity: 0	Other: None	

SECTION 6 - ACCIDENTAL RELEASE MEASURES
Personal Precautions: If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles.
Containment and Cleanup: Vacuum clean dust with equipment fitted with HEPA filter. Use dust suppressant such as water if sweeping is necessary. Although the product itself is non-hazardous, material collected during clean-up operations may be contaminated and should be treated as hazardous unless specific testing, including TCLP, shows the collected material to be non-hazardous
Environment: Not considered as hazardous waste by RCRA (40 CFR Part 261). Place waste and spillage in closed containers. Dispose

SECTION 7 - HANDLING AND STORAGE

Handing Procedures and Equipment

of in approved landfill.

Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags. Wet mopping or vacuuming with a unit that contains a HEPA filter is recommended to clean up any dusts that may be generated during handling and processing.

Hazardous Combustion Products

Store in a dry place to maintain packaging integrity and product quality. Observe all label precautions and warnings.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION ACGIH TLV SON OSHA PEL Other Specific Engineering Controls (such as ventilation, enclosed process) Adequate ventilation and appropriate local exhaust where needed to keep dust level below PEL. Local exhaust ventilation should be provided to maintain exposures below the limits recommended for nuisance particulates of 10 mg/M^3 for total particulates and 3 mg/M³ for respirable particulates. Design details for local exhaust ventilation systems may be found in the latest edition of "Industrial Ventilation: A manual of Recommended Practices" published by the ACGIH Committee on Industrial Ventilation, P.O. Box 16153 Lansing, MI 48910. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer. Eve Clothing ☐ Other Gloves Respirator ☐ Footwear Personal Protective Equipment If Checked, Please Specify Type: Skin: No special equipment is required. Respiratory: Respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present. If the dust concentration is less than ten (10) time the Permissible Exposure Limit (PEL) use a quarter or half mask respirator. If dust concentration is greater than ten (10) times and less than fifty (50) times the PEL, a full-face piece respirator fitted with replaceable N95 filters is recommended. If dust concentration is greater than fifty (50) and less than two-hundred (200) times the PEL use a power air-purify (positive pressure) respirator with replaceable N95 filter. If dust concentration is greater than two-hundred (200) times the PEL use a type C, supplied air respirator (continuous flow, positive pressure), with full face piece, hood or helmet. Always consult your respiratory protective equipment supplier or a professional industrial hygienist for selection of the proper equipment. The evaluation of the need for respiratory protection should be made by a professional industrial hygienist. Always consult your respiratory protective equipment supplier or a professional industrial hygienist for selection of the proper equipment. The evaluation of the need for respiratory protection should be made by a professional industrial hygienist. Eye: Goggles to protect from dust. Clothing: All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned and reuse. **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** Odor Threshold (ppm) Physical State Odor and Appearance Odorless Tan Flakes, Granules or Powder N/A Solid Vapor Pressure (mmHg) Specific Gravity Vapor Density (air≔1) N/A N/A 2.3-2.6 Freezing Point (°C) Evaporation Rate Boiling Point (°C) Melting Point 1260-1370 °C N/A N/A N/A Solubility in Water Coefficient of Water/Oil Distribution рH Insoluble (<1%) N/A l6-9 SECTION 10 - STABILITY AND REACTIVITY If not, under what conditions Chemical Stability Yes Yes □ No If yes, which ones? Incompatibility with other Substances Yes No Do not store with strong acids or reducing agents. Reactivity and under what conditions? No dangerous reactions known.

Hazardous Decomposition Products

None. Product is stable to at least 2400° F.

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of Acute Exposure

Potential irritant for skin contact, eye contact or inhalation. Skin contact may aggravate existing dermatitis. Inhalation from prolonged and continuous exposure may aggravate existing asthmatic or respiratory conditions.

Effects of Chronic Exposure

Prolonged inhalation of excessive levels vermiculite dust may cause a simple pneumoconiotic condition, not normally associated with a decrement in lung function. In cases of long-term exposure to extremely high levels of dust, complicated pneumoconiosis with lung function may occur.

Irritancy of Product

Potential irritant for skin contact, eye contact or inhalation.

Skin Sensitization N/A	Respiratory Sensitization N/A
Carcinogenicity—IARC N/A	Carcinogenicity—ACGIH N/A
Reproductive Toxicity N/A	Teratogenicity N/A
Embrotoxicity N/A	Mutagenicity N/A
Name of Synergistic Products/Effects N/A	

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity

Generally considered inert. 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 ECo and ECo (Daphnia pulex lethality) were determined to be >50 milligrams of extract per liter (mg/l). The 72 hour ECo and ECo (algal, Selenastrum capricornutum, growth inhibition) were determined to be >50 mg/l. The 48 hour ECo and ECo (bacterial, Pseudomonas putida, growth inhibition) were determined to be >50 mg/l. The 48 hour ECo and ECo (frog, Xenopus laevis, embryo lethality) were determined to be >50 mg/l.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposa

Not considered hazardous waste by the RCRA (40 CFR Part 261). Place waste and spillage in closed containers. Dispose in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORT INFORMATION

Special Shipping Information No known shipping regulations.	PIN N/A
IDG	DOT
N/A	N/A
IMO	ICAO
N/A	N/A

SECTION 15 - REGULATORY INFORMATION

WHMIS Classification	OSHA
Not Controlled	Irritant, Lung Hazard, Skin Hazard, Eye Hazard
SERA Acute Hazard for minute contamination with silica. Otherwise, SARA Section 311/312 (40 CFR 370 Subparts B and C) Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No	TSCA Not listed

MSDS / 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. The Schundler Company does not accept liability for any loss or damage that may occur from the use of this information.