

# **SAFETY DATA SHEET** - 16 Sections

The Schundler Company Sid Harvey item # 649

SDS # 20308

# **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier Expanded Vermiculite (All G	rades)	WHMIS CLASSIFICATI	WHMIS CLASSIFICATION: Not Applicable		
Product Use Light weight aggregate, Horti	cultural aggregate, Insulation	on, Packing Material,	Absorbent		
Manufacturer's Name The Schundler Company		Supplier's Name	Supplier's Name		
Street Address 150 Whitman Avenue		Street Address			
City, State Edison, NJ		City	Province		
Postal Code <b>08817</b>	Emergency Telephone 732-287-2244	Postal Code	Emergency Telephone		
Date SDS Prepared August 3, 2015	SDS Prepared By Schundler Consu	Ilting	Phone Number 732-287-2244		

## **SECTION 2 - HAZARDS IDENTIFICATION**

Route of Ent	ry Skin Contact	Skin Absorption	Eye Contact	Inhalation		
respiratory area. Pick in appropr operations	tan flakes, granules or po y tract. Wear appropriate p up released product with iate containers for dispose s may be contaminated an	personal protective e appropriate implem al. Although the proo d should be treated	equipment. Keep in ents and return to o duct itself is non-ha as hazardous unle	dividuals not inv original containe zardous, materi ss specific testir	skin, mucous membranes and olved in the cleanup out of the r if reusable. If not reusable, pla al collected during clean up ng, including TCLP, shows the nt an environmental hazard.	ce
WHMIS Symbo	ols					
Not Regul	ated					
Potential Healt	th Effects					
<u>Skin</u> :	Not absorbed by the skin. E	But may cause drynes	s if prolonged expos	sure.		
<u>Eye</u> :	May cause irritation (tear for	rmation and redness	) if dust gets in eyes			
true of all		tes, inhalation of hig	h concentrations o		or silica free-vermiculite. As is sts and/or particulates over	
Symptoms pulmonary years and carcinoge	s may include, cough, sho / illness. The onset of sym	rtness of breath, wh ptoms, except in ca es in the x-ray pictu Agency for Resear	eezing, decrease in ses of massive exp ire of lungs. Crysta ch on Cancer (IAR)	n pulmonary fun posures, is usual lline silica has b C) and as a subs	ling lung disorder (silicosis). ction, and recurring non-specific ly gradual over a period of seve een listed a potential human stance that can be	
Pre-existir	ng lung and skin condition	s may possibly be a	ggravated by expo	sure to the comp	ponents of this product.	
	Ingestion of small to moders stomach.	ate quantities is not c	onsidered harmful, b	out may cause irri	tation 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**

Flammable Ves	No	
Means of Extinction N/A		
Flashpoint (°C) and Method None	· · · · ·	Lower Flammable Limit (% by volume) None
Auto Ignition Temperature (°C) None	· · · · · ·	Explosion Data—Sensitivity to Static Discharge N/A
Hazardous Combustion Products N/A		
NFPA Health: 1 Flammability: 0 Reactivit	ty: 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 of in approved landfill.

# **SECTION 7 - HANDLING AND STORAGE**

Handing Procedures and Equipment

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**

Exposure Limits ACGIH TLV 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/M^3 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.				
Personal Protective Equipment Gloves Respirator Eye Footwear Clothing Other				
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				

Eve: Goggles to protect from dust.

hygienist.

<u>Clothing:</u> All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned and reuse.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

	<u>Odor and Appearance</u> Odorless Tan Flakes, Granules or Powder		<u>Odor Threshold (ppm</u> ) N/A
Specific Gravity 2.3-2.6	/		<u>Vapor Pressure (mmHg)</u> N/A
Evaporation Rate N/A	Boiling Point (°C) N/A	Melting Point 1260-1370 °C	<u>Freezing Point (°C)</u> N/A
<u>рн</u> 6-9			<u>Solubility in Water</u> Insoluble (<1%)

# **SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability	If not, under what conditions
Incompatibility with other Substances	If yes, which ones? 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	Respiratory Sensitization
N/A	N/A
Carcinogenicity—IARC	Carcinogenicity—ACGIH
N/A	N/A
Reproductive Toxicity	Teratogenicity
N/A	N/A
Embrotoxicity	Mutagenicity
N/A	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 EC<sub>0</sub> and EC<sub>50</sub> (Daphnia pulex lethality) were determined to be >50 milligrams of extract per liter (mg/l). The 72 hour EC<sub>0</sub> and EC<sub>50</sub> (algal, Selenastrum capricornutum, growth inhibition) were determined to be >50 mg/l. The 72 hour EC<sub>0</sub> and EC<sub>50</sub> (bacterial, Pseudomonas putida, growth inhibition) were determined to be >50 mg/l. The 48 hour EC<sub>0</sub> and EC<sub>50</sub> (frog, Xenopus laevis, embryo lethality) were determined to be >50 mg/l.

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

Waste Disposal

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

# **SECTION 14 - TRANSPORT INFORMATION**

Special Shipping Information	<u>PIN</u>
No known shipping regulations.	N/A
IDG	DOT
N/A	N/A
I <u>MO</u>	ICAO
N/A	N/A

# **SECTION 15 - REGULATORY INFORMATION**

WHMIS Classification	OSHA
Not Controlled	Irritant, Lung Hazard, Skin Hazard, Eye Hazard
<u>SERA</u> 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

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the 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.

# MATERIAL SAFETY DATA SHEET---VERMICULITE

# TRADE NAME (as labeled) MANUFACTURERS NAME

Address (complete mailing address):

Schundler Company Vermiculite (Expanded) THE SCHUNDLER COMPANY www.schundler.com 150 Whitman Avenue Edison, N.J. 08817 (732) 287-2244 info@schundler.com February 25, 2004

Date Prepared or Revised:

Phone number:

------II. HAZARDOUS INGREDIENTS-------

Chemical Names	CAS Numbers	Exposure Limits in Air		
		ACGIH TLV (total)	ACGIH TLV (respirable)	OTHER)
Vermiculite	1318-00-9	10 mg/M <sup>3</sup>	3 mg/M <sup>3</sup>	30 mppcf

Vermiculite is the mineralogical name given to hydrated laminar mangesiumaluminum-iron silicates which resemble mica in appearance. When subjected to heat, crude vermiculite has the unusual property of exfoliating or expanded into worm-like particles (the name vermiculite is derived from the Latin 'vermiculare', meaning to breed worms.)

Vermiculite is considered a nuisance dust (also called "Particulates Not Otherwise Classified (PNOC) by ACGIH).

Vapor Density (air = 1)	N/A	Melting point or range. C°	
III. PHYS	SICAL P	ROPERTIES	
Alpha Quartz:		0.01 to 0.05%	
Alpha-Cristobalite & Tridymite:		Less than 0.1%	

1350+ (Collapse and

			coalescence of the individual flakes begin at this temperature.)
Specific Gravity	2.5	Boiling point or range. F°	N/A
Solubility in Water	<1%	Evaporation rate (butyl acetate = 1)	N/A
Vapor Pressure, mmHg at 20°C	N/A		
Appearance and odor:	tan/bro	own with no odor	
HOW TO DETECT THIS SUBST vapor, dust or mist)	ANCE	(warning properties of substance as a ga	as,
Visual only (dust), No gas, vapor	s, or mi	ist emitted.	
IV. FIRE A		XPLOSION	
Flash Point, F° (give method) Wermiculite is a fully oxidized non-flammable mineral. It is noncombustible and non-flammable.			
Auto ignition temperature, F°		N/A	
Flammable limits in air, Volume	<b>e%</b> :	N/A lower(LEL) N/A	upper(UEL) N/A
Fire extinguishing materials:		N/A	
water spray	car	rbon dioxideother:	
foam	dry	/ chemical	
Special fire fighting procedure	s:	N/A	
Unusual fire and explosion hazards:		N/A	
V. HEALT	H HAZ	ZARD INFORMATION	

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure

Inhaled:	Coughing

**Contact with skin or eyes:** Possible eye irritation from dust particles; wear eye protection

Absorbed through skin: N/A

Swallowed: N/A

### HEALTH EFFECTS OR RISKS FROM EXPOSURE.

Acute: None

**Chronic:** Excessive inhalation over long period may cause harmful irritation; use mask suitable for nuisance dust.

Target Organ: None

### FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Attempt to wash out with clear water; if unable have particle removed by doctor

Skin Contact: None

Inhaled: Remove affected individual from dusty area to area with clean air

Swallowed: None

### SUSPECTED CANCER AGENT?

X NO: This product's ingredients are not found in the lists below.

YES: \_\_\_\_\_ Federal OSHA \_\_\_\_\_NTP \_\_\_\_IARC

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Any Respiratory illnesses which a nuisance dust may aggravate

-----VI. REACTIVITY DATA------

Stability:	<u>X</u> Stable	Unsta	ble
Incompatibility (Materials to avoid):	None		
Hazardous decomposition products	(including combustion produ	cts):	None

Hazardous Polymerization:		May Occur	<u>X</u>	_ Will not occur
Conditions to Avoid:	None			

------VII. SPILL, LEAK, AND DISPOSAL PROCEDURES-

## Spill response procedures (include employee protection measures):

Vacuum clean or sweep material; Use respirators suitable for nuisance dust and eye protection.

## Preparing wastes for disposal (container types, neutralization, etc.):

Dispose in bulk or containers according to local dump requirements. No special treatment required.

Note: Dispose of all wastes in accordance with federal, state, and local regulations.

VIII. SPECIAL HANDLING INFORMATION

### Ventilation and engineering controls:

Maintain dust level below TLV.

# **Respiratory protection (type)**

Masks suitable for nuisance dust.

# Eye Protection (type)

Protective goggles.

# Gloves (specify material)

Not required.

# Other Clothing and equipment

Not required.

# Work practices, hygienic practices

Use good housekeeping to avoid transient dust.

## Other handling and storage requirements

Use good housekeeping to avoid transient dust.

## Protective measures during maintenance of contaminated equipment

None special other than respirators and goggles.

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation with respect to such information is intended or given; and it is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

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