

# Safety Data Sheet

Material Name: VERMICULITE, UNEXPANDED

SDS ID: 00232379

## \*\*\* Section 1 - PRODUCT AND COMPANY IDENTIFICATION \*\*\*

**Material Name:** VERMICULITE, UNEXPANDED

### Manufacturer Information

CMC Cometals  
CONTACT:  
2050 Center Avenue, Suite 250  
Ft. Lee, NJ 07024  
Mfg Contact: CMC Cometals

EMERGENCY

### Chemical Family

mineral, silicates

### Synonyms

HYDRATED MAGNESIUM-ALUMINUM-IRON SILICATE; VERMICULITE; HYDRATED MAGNESIUM ALUMINUM IRON SILICATE; VERMICULITE, NON-ASBESTOS FORM; VERMICULITE, NON-ASBESTIFORM; FR-MH; GRACE 3; HIRUKON S; HIRUKON S 80; JISA 5009; M 729; MICROLITE 903; MICROLITE HTS-XE; SIPLAST; VERMEX F; HYDROPHLOGOPITE, ALTERED MICA MINERAL; VERMICULITE (ORE CONCENTRATE); MAGNESIUM ALUMINUM IRON SILICATE; JEFFERSITE

## \*\*\* Section 2 - HAZARDS IDENTIFICATION \*\*\*

### EMERGENCY OVERVIEW

**Color:** yellow or brown

**Physical Form:** crystals

**Odor:** odorless

### POTENTIAL HEALTH EFFECTS

#### Inhalation

**Short Term:** irritation

**Long Term:** no information is available

#### Skin

**Short Term:** irritation

**Long Term:** no information is available

#### Eye

**Short Term:** irritation

**Long Term:** no information is available

#### Ingestion

**Short Term:** no information is available

**Long Term:** no information is available

## \*\*\* Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS \*\*\*

CAS	Component	Percent	Symbol(s)	Risk Phrase(s)
1318-00-9	VERMICULITE, UNEXPANDED	>99	---	---
14808-60-7	QUARTZ 238-878-4	<0.1	T	R:49

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## Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Aluminium compounds, magnesium inorganic compounds.

### \*\*\* Section 4 - FIRST AID MEASURES \*\*\*

#### Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

#### Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

#### Eyes

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

#### Ingestion

If a large amount is swallowed, get medical attention.

### \*\*\* Section 5 - FIRE FIGHTING MEASURES \*\*\*

See Section 9 for Flammability Properties

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Flammable Properties

Negligible fire hazard.

#### Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

### \*\*\* Section 6 - ACCIDENTAL RELEASE MEASURES \*\*\*

#### Water Release

Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers.

#### Occupational spill/release

Large spills: Collect spilled material in appropriate container for disposal. Avoid generating dust. Clean up residue with a high-efficiency particulate filter vacuum.

### \*\*\* Section 7 - HANDLING AND STORAGE \*\*\*

#### Handling Procedures

Use methods to minimize dust.

#### Storage Procedures

Store and handle in accordance with all current regulations and standards. Store in a cool, dry place. Store in a tightly closed container. Store in a well-ventilated area. See original container for storage recommendations.

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## \*\*\* Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION \*\*\*

### Component Exposure Limits

#### QUARTZ (14808-60-7)

**ACGIH:** 0.025 mg/m3 TWA (respirable fraction)

**NIOSH:** 0.05 mg/m3 TWA (respirable dust)

50 mg/m3 IDLH (respirable dust)

**OSHA (US):** 30)/(%SiO<sub>2</sub> + 2) mg/m3 TWA, total dust); ((250)/(%SiO<sub>2</sub> + 5) mppcf TWA, respirable fraction);

((10)/(%SiO<sub>2</sub> + 2) mg/m3 TWA, respirable fraction

**Mexico:** 0.1 mg/m3 TWA (respirable fraction)

### Ventilation

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

#### Eyes/Face

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### Protective Clothing

Wear appropriate chemical resistant clothing.

#### Glove Recommendations

Wear appropriate chemical resistant gloves.

#### Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Respiratory protection is ranked in order from minimum to maximum.

Consider warning properties before use.

Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

Any air-purifying full-facepiece respirator equipped with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

#### For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

## \*\*\* Section 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*

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<b>Physical State:</b>	Solid	<b>Appearance:</b>	Not available
<b>Color:</b>	yellow or brown	<b>Physical Form:</b>	crystals
<b>Odor:</b>	odorless	<b>Odor Threshold:</b>	Not available
<b>Melting Point:</b>	1260 - 1370 °C	<b>Boiling Point:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable	<b>Vapor Density (air = 1):</b>	Not applicable
<b>Density:</b>	Not available	<b>Specific Gravity (water = 1):</b>	2.3 - 2.6
<b>Water Solubility:</b>	insoluble	<b>Coeff. Water/Oil Dist:</b>	Not available

## Solvent Solubility

**Soluble:** hot concentrated sulfuric acid

**Insoluble:** weak acids, weak alkali, organic solvents

## \*\*\* Section 10 - STABILITY AND REACTIVITY \*\*\*

### Chemical Stability

Stable at normal temperatures and pressure.

### Conditions to Avoid

None reported.

VERMICULITE:

No data available.

### Decomposition Products

miscellaneous decomposition products

Thermal decomposition products: miscellaneous decomposition products.

### Possibility of Hazardous Reactions

Will not polymerize.

## \*\*\* Section 11 - TOXICOLOGICAL INFORMATION \*\*\*

### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### QUARTZ (14808-60-7)

Oral LD50 Rat: 500 mg/kg

### RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

### Component Carcinogenicity

#### QUARTZ (14808-60-7)

**ACGIH:** A2 - Suspected Human Carcinogen

**IARC:** Monograph 68 [1997] (Group 1 (carcinogenic to humans))

**NTP:** Known Human Carcinogen

**DFG:** Category 1 (causes cancer in man, alveola fraction)

**OSHA:** Present (respirable size)

### RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

### HEALTH EFFECTS

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## Inhalation - Acute Exposure

VERMICULITE: Dust may cause irritation of the mucous membranes and upper respiratory tract. May also cause coughing and sneezing.

## Inhalation - Chronic Exposure

VERMICULITE: No data available.

## Skin Contact - Acute Exposure

VERMICULITE: Dust may cause mechanical irritation.

## Skin Contact - Chronic Exposure

VERMICULITE: No data available.

## Eye Contact - Acute Exposure

VERMICULITE: Dust may cause mechanical irritation.

## Eye Contact - Chronic Exposure

VERMICULITE: No data available.

## Ingestion - Acute Exposure

VERMICULITE: No data available.

## Ingestion - Chronic Exposure

VERMICULITE: No data available.

<b>*** Section 12 - ECOLOGICAL INFORMATION ***</b>
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## Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

<b>*** Section 13 - DISPOSAL CONSIDERATIONS ***</b>
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## Disposal Methods

Dispose in accordance with all applicable regulations.

## Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

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## \*\*\* Section 14 - TRANSPORT INFORMATION \*\*\*

### US DOT Information

No Classification assigned.

### TDG Information

No Classification assigned.

### ADR Information

No Classification assigned.

### RID Information

No Classification assigned.

### IATA Information

No Classification assigned.

### ICAO Information

No Classification assigned.

### IMDG Information

No Classification assigned.

## \*\*\* Section 15 - REGULATORY INFORMATION \*\*\*

### U.S. Federal Regulations

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
QUARTZ	14808-60-7	No	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

### Component Analysis

#### QUARTZ (14808-60-7)

Carc: carcinogen, initial date 10/1/88 (airborne particles of respirable size)

### Canada

### Germany Water Classification

#### QUARTZ (14808-60-7)

Number 849, not considered hazardous to water

#### QUARTZ (14808-60-7)

Number 849, not considered hazardous to water

### EU Marking and Labelling

#### Symbols

T Toxic

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## Risk Phrases

R49 May cause cancer by inhalation.

## Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
VERMICULITE, UNEXPANDED	1318-00-9	No	No	No	Yes	Yes	No	No	Yes	Yes
QUARTZ	14808-60-7	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

## \* \* \* Section 16 - OTHER INFORMATION \* \* \*

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

### Full text of R phrases in Section 3

R49 May cause cancer by inhalation.

### Other Information

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