



PROMAT INC.

## Product Safety Data Sheet Monalite-M1 T

MONALITE®-M1 T is an article within the meaning of REACH (REGULATION (EC) No 1907/2006) and CLP (REGULATION (EC) No 1272/2008). SDSs do not have to be provided for articles. Moreover, this article, for which safety information is given, does not contain substances of very high concern, substances of which the use is restricted by the Commission or substances on the Candidate List of Substances of Very High Concern for Authorization (last updated list February 8, 2016). Even if this article is not subjected to any obligation to classify or label (Art 4 of Regulation (EC) No 1272/2008), Promat has decided to supply several information about identification, first aid and releases measures, exposure control, disposal and transport. This safety information supplies information to industrial and professional users on the safe use of this article.

### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Monalite-M1 T
Product Form:	Article
Product Group:	Medium dense calcium silicate board.
Brand	PROMAT

#### 1.3 Recommended use of the chemical and restrictions on use

Main use category: Professional use  
Function or use category: High temperature insulation

No additional information available

#### 1.4 Supplier's details

Name	Promat Inc.
Address	1731 Fred Lawson Dr. Maryville, TN 37801 USA
Telephone	(888) 681-0155
Fax	(865) 681-0016
email	cs@promat.us

### SECTION 2: Hazard identification

#### General hazard statement

During machining the product (drilling, cutting, sanding, etc.), airborne dust can be released. As with most types of nuisance dust, excessive inhalation of dust may cause irritation of the bronchial tubes. Can occur: eye irritation, irritation of mucous membranes and skin irritation. The handling and machining of this product may lead to the release of quartz containing dust. The inhalation of dust containing quartz, the fine (respirable) dust fraction, in high concentrations or over a prolonged period of time may lead to lung disease (silicosis) and an increased risk of lung cancer

#### 2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Specific target organ toxicity (repeated exposure), Cat. 1

#### 2.2 GHS label elements, including precautionary statements

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### Pictogram



### Signal word

**Warning**

### Hazard statement(s)

H372

Causes damage to organs through prolonged or repeated exposure.

### Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P264

Wash thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P314

Get medical advice/attention if you feel unwell.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards which do not result in classification

For the installed product in its final application: no hazards known.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Other names / synonyms                      Monalite-M1 T

#### Hazardous components

##### 1. Calcium silicate

Concentration                                      20 - 70 % (weight)  
CAS no.    1344-95-2

##### 2. Wollastonite

Concentration                                      30 - 60 % (weight)  
CAS no.    13983-17-0

##### 3. Silica, crystalline

Concentration                                      ≤ 5 % (weight)  
EC no.     238-878-4  
CAS no.    14808-60-7

##### 4. Cellulose (pulp)

Concentration                                      ≤ 5% (weight)  
CAS no.    65996-61-4

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice                                      Seek medical attention if ill effect or irritation develops.

If inhaled    Remove to fresh air and drink water

In case of skin contact                              Wash skin with plenty of water.

In case of eye contact                              Do not rub the eye. Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention.

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If swallowed

Drink water.

### 4.2 Most important symptoms/effects, acute and delayed

Symptoms/injuries after inhalation: May cause irritation to the respiratory tract and to other mucous membranes.  
Symptoms/injuries after skin contact: Prolonged skin contact may lead to skin irritation for sensitive persons.  
Symptoms/injuries after eye contact: Eye contact with dust may lead to transient eye irritation or inflammation.  
Symptoms/injuries after ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

All extinguishing media can be used.

### 5.2 Specific hazards arising from the chemical

Fire hazard: Nothing to report.  
Explosion hazard: Product is not explosive.  
Reactivity in case of fire: The product is non-combustible.

### 5.3 Special protective actions for fire-fighters

Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

General measures: Minimize generation of dust. Avoid breathing dusts. Avoid eye and skin contact. Dampen down any dust or use vacuum cleaner with correct filter.

Protective equipment: Use recommended respiratory protection.

Measures in case of dust release: Prevent spread of dust. Dampen down any dust or use vacuum cleaner with correct filter.

Protective equipment: Use personal protective equipment as required.

Emergency procedures: Stop dust release.

### 6.2 Environmental precautions

Prevent spread of dust.

### 6.3 Methods and materials for containment and cleaning up

For containment: Use closed containers to avoid dust release.

Methods for cleaning up: Shovel up small pieces. Dampen down any dust before putting into appropriate skips.

### Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Additional hazards when processed: Dust, generated during machining and processing must be exhausted and the regulatory occupational exposure limits (workplace exposure limits in UK) for total and respirable dust and respirable quartz dust must be respected.

Precautions for safe handling: Use always respiratory protective equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits in the UK (refer to local

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regulations). Collect dust with a vacuum cleaner or soak with water before sweeping up. Work in a well-ventilated area. Use tools with appropriate dust exhaust equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in dry, covered and frost proof area.

#### Specific end use(s)

High temperature insulation.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)

PEL (Inhalation): See Annotated Z-3 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): See Annotated Z-3 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): See Annotated Z-3 (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): See Annotated Z-3 (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 2. Silica, crystalline (CAS: 14808-60-7 EC: 238-878-4)

TLV® (Inhalation): 0.025 mg/m<sup>3</sup> (resp.) for α-quartz and cristobalite (ACGIH)

PEL-TWA (Inhalation): 10 mg/m<sup>3</sup> / (% Silica + 2) respirable 30 mg/m<sup>3</sup> / (% Silica + 2) total (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 0.05 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): Ca 0.05 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 3. Calcium silicate (CAS: 1344-95-2)

PEL (Inhalation): see PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 4. Calcium silicate, total dust (CAS: 1344-95-2)

PEL (Inhalation): 15 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 10 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 10 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 5. Calcium silicate, respirable fraction (CAS: 1344-95-2)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 5 mg/m<sup>3</sup> (NIOSH)

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OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 6. Cellulose (pulp), inhalable dust (CAS: 65996-61-4)

WEL (Inhalation): 10 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 7. Cellulose (pulp), respirable dust (CAS: 65996-61-4)

WEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 8. Cellulose (pulp), inhalable dust (CAS: 65996-61-4)

STEL (Inhalation): 20 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

## 8.2 Appropriate engineering controls

Ensure vacuum dust exhaust with correct filter when using motorized machining tools. When machining boards (drilling, cutting, sanding, etc.), respect Occupational Exposure Limits (OEL) or Workplace Exposure Limits for inhalable and respirable dust and for respirable quartz dust. Check the latest Occupational Exposure Limits (OEL) or Workplace Exposure Limits for airborne contaminants that are applicable in your country.

## 8.3 Individual protection measures, such as personal protective equipment (PPE)

### Pictograms



### Eye/face protection

Avoid contact with eyes. Use safety glasses whenever tools are used, and dusts are produced

### Skin protection

Avoid contact with skin. Use working clothes and gloves to protect against mechanical injury and direct skin contact

### Body protection

Avoid contact with skin. Use working clothes and gloves to protect against mechanical injury and direct skin contact

### Respiratory protection

Avoid breathing dusts. Use appropriate respiratory equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits for the UK (e.g. for exposures up to 10 times the OEL (WEL) use at least a P2 type duct mask. For higher exposure, use a P3 type mask)

### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid
Odor	None
Odor threshold	No data available
pH	~10
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable
Upper/lower flammability limits	

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Vapor pressure	No data available
Vapor density	Not applicable
Relative density	No data available
Density	~850 kg/m <sup>3</sup>
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable
Explosive properties	Not applicable
Oxidizing properties	No data available

### Other safety information

No additional information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5 Incompatible materials

Strong acids.

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Silica, crystalline: Hydrogen fluoride

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not classified

No acute toxicity has been reported, apart from some exceptional cases of transient eye irritation or inflammation, skin irritation or irritation of the mucosae (throat, bronchial tubes) by excessive exposure to dust

#### Skin corrosion/irritation

Not classified

pH: ≈ 10

#### Serious eye damage/irritation

Not classified

pH: ≈ 10

#### Respiratory or skin sensitization

Not classified

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### Germ cell mutagenicity

Not classified

### Carcinogenicity

Not classified

### Reproductive toxicity

Not classified

### Summary of evaluation of the CMR properties

Not classified

### STOT-single exposure

Not classified

### STOT-repeated exposure

Not classified

### Aspiration hazard

Not classified

### Additional information

The inhalation of quartz containing dust, the fine dust fraction (respirable size), in high concentrations or over repeated or prolonged periods of time can be hazardous to health and may lead to chronic lung disease and an increased risk of lung cancer. This risk will be minimal if correct working practices are observed and applied. (Refer to Section 8). According to the International Agency for Research on Cancer (IARC Monograph Volume 100C - 2012) "Crystalline silica inhaled in the form of quartz or cristobalite is carcinogenic to humans (Group 1)."

## SECTION 12: Ecological information

### Toxicity

No known effects.

### Persistence and degradability

No additional information available

### Bio accumulative potential

No additional information available

### Mobility in soil

No additional information available

### Results of PBT and vPvB assessment

Crystalline silica (quartz) (14808-60-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Silicic acid, calcium salt (1344-95-2)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### Disposal of the product

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Dispose in a safe manner in accordance with local/national regulations.

### Waste treatment

Handle as construction industry waste.

## SECTION 14: Transport information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### New Jersey Right to Know Components

Common name: Silica, quartz

CAS number: 14808-60-7

#### Pennsylvania Right to Know Components

Chemical name: Quartz

CAS number: 14808-60-7

#### California Prop. 65 Components

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

Quartz

CAS-No. 14808-60-7

#### Massachusetts Right to Know Components

Chemical name: Quartz

CAS number: 14808-60-7

#### California Prop. 65 components

Chemical name: Silica, crystalline

CAS number: 14808-60-7

10/01/1988 - cancer

#### New Jersey Right to Know Components

Common name: Calcium silicate

CAS number: 1344-95-2

#### Pennsylvania Right to Know Components

Chemical name: Silicic acid, calcium salt

CAS number: 1344-95-2

### HMIS Rating

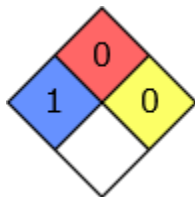
Monalite-M1 T	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

### NFPA Rating



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### SECTION 16: Other information

#### DISCLAIMER OF LIABILITY

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