PROMAT INC.

Product Safety Data Sheet
Monalite-M1A T

MONALITE®-M1A 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-M1A 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

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-M1A 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.

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

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

PEL (Inhalation): See Annotated Z-3 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): See Annotated Z-3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): See Annotated Z-3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

2. Silica, crystalline (CAS: 14808-60-7 EC: 238-878-4)
TLV® (Inhalation): 0.025 mg/m3 (resp.) for α-quartz and cristobalite (ACGIH)

PEL-TWA (Inhalation): 10 mg/m3 / (% Silica + 2) respirable 30 mg/m3 / (% Silica + 2) total (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 0.05 mg/m3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): Ca 0.05 mg/m3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

3. Calcium silicate (CAS: 1344-95-2)
PEL (Inhalation): see PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

4. Calcium silicate, total dust (CAS: 1344-95-2)
PEL (Inhalation): 15 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 10 mg/m3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 10 mg/m3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

5. Calcium silicate, respirable fraction (CAS: 1344-95-2)
PEL (Inhalation): 5 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 mg/m3 (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

6. Cellulose (pulp), inhalable dust (CAS: 65996-61-4)
WEL (Inhalation): 10 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

7. Cellulose (pulp), respirable dust (CAS: 65996-61-4)
WEL (Inhalation): 5 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

8. Cellulose (pulp), inhalable dust (CAS: 65996-61-4)
STEL (Inhalation): 20 mg/m3 (OSHA)
OSHA Annotated Table Z-1, 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	

Vapor pressure	No data available
Vapor density	Not applicable
Relative density	No data available
Density	~990 kg/m³
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.

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

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

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

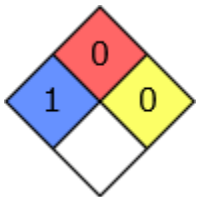
New Jersey Right to Know Components
Common name: Calcium silicate
CAS number: 1344-95-2

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



SECTION 16: Other information

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