

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: MTM**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Filter aid/ Filtration accelerator
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Clack Corporation
4462 Duraform Lane
Windsor, WI 53598
Phone: 608-846-3010
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to GHS regulations.
The product is not classified as hazardous according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not Regulated
- **Hazard pictograms** Not Regulated
- **Signal word** Not Regulated
- **Hazard-determining components of labelling:** None.
- **Hazard statements** Not Regulated
- **Hazard description:**
- **WHMIS-symbols:**
D2A - Very toxic material causing other toxic effects



(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

(Contd. of page 1)

· **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 0

· **HMIS Long Term Health Hazard Substances**

| | |
|------------|----------------------------|
| 14808-60-7 | Quartz (SiO ₂) |
|------------|----------------------------|

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

| | | |
|---|--|-------|
| CAS: 7631-86-9 EINECS: 231-545-4 | silicon dioxide | >75% |
| CAS: 14808-60-7 EINECS: 238-878-4 | Quartz (SiO ₂) T R49; Xn R48 Carc. 1A, H350 | <10% |
| CAS: 1313-13-9 EINECS: 215-202-6 Index number: 025-001-00-3 | manganese dioxide Xn R22-48/20 STOT RE 2, H373 Acute Tox. 4, H302; Acute Tox. 4, H332 | <1,0% |
| CAS: 14464-46-1 EINECS: 238-455-4 | cristobalite Xn R48/20 Carc. 1A, H350; STOT RE 2, H373 | <0,1% |

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **General information:** No special measures required.· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:**

Generally the product does not irritate the skin.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

(Contd. of page 2)

- Clean with water and soap.
- If skin irritation continues, consult a doctor.
- **After eye contact:**
 - Remove contact lenses if worn.
 - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
 - No further relevant information available.
- **Hazards** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
 - No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information** No further relevant information available.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Use respiratory protective device against the effects of fumes/dust/aerosol.
 - Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Pick up mechanically.
 - Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Prevent formation of dust.
 - Any unavoidable deposit of dust must be regularly removed.
- **Information about fire - and explosion protection:** No special measures required.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

(Contd. of page 3)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

14808-60-7 Quartz (SiO₂)

| | |
|-------------|--|
| PEL (USA) | see Quartz listing |
| REL (USA) | 0,05* mg/m ³ *respirable dust; See Pocket Guide App. A |
| TLV (USA) | 0,025* mg/m ³ *as respirable fraction |
| EL (Canada) | 0,025 mg/m ³ ACGIH A2; IARC 1 |
| EV (Canada) | 0,10* mg/m ³ *respirable fraction |

1313-13-9 manganese dioxide

| | |
|-------------|--|
| PEL (USA) | Short-term value: C 5 mg/m ³ as Mn |
| REL (USA) | Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ as Mn |
| TLV (USA) | 0,2 mg/m ³ as Mn |
| EL (Canada) | 0,2 mg/m ³ as Mn; R |

14464-46-1 cristobalite

| | |
|-----------|--|
| PEL (USA) | ½ value from respirable dust formulae for Quartz |
| REL (USA) | 0,05* mg/m ³ *respirable dust; See Pocket Guide App. A |
| TLV (USA) | 0,025* mg/m ³ *as respirable fraction |

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

(Contd. of page 4)

| | |
|-------------|---|
| EL (Canada) | 0,025 mg/m ³ ACGIH A2; IARC 1 |
| EV (Canada) | 0,05* mg/m ³ *respirable fraction |

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** No further relevant information available.
- **Respiratory protection:**
Not required under normal conditions of use.
Use respiratory protection when grinding or cutting material.
Use suitable respiratory protective device when high concentrations are present.

- **Protection of hands:**



Protective gloves

- **Eye protection:**



Safety glasses

- **Body protection:** Not required.
- **Limitation and supervision of exposure into the environment** No special requirements.
- **Risk management measures** No special requirements.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** Powder
 - Colour:** Dark brown
 - Odour:** Odourless
 - Odour threshold:** Not determined.
 - pH-value:** Not applicable.
- **Change in condition**
 - Melting point/Melting range:** Not Determined.
 - Boiling point/Boiling range:** >260 °C (>500 °F)
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.

(Contd. on page 6)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

(Contd. of page 5)

- **Auto/Self-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure:** Not applicable.
- **Density at 20 °C (68 °F):** 2,0 - 2,5 g/cm³ (16,69 - 20,863 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Toxic metal oxide smoke

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

(Contd. on page 7)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

(Contd. of page 6)

- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
- **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Smaller quantities can be disposed of with household waste.
Can be reused after reprocessing.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **14.2 UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **14.3 Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Not Regulated
- **14.4 Packing group**
- **DOT, ADR, IMDG, IATA** Not Regulated
- **14.5 Environmental hazards:**
- **Marine pollutant:** No

(Contd. on page 8)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

(Contd. of page 7)

- 14.6 Special precautions for user Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- UN "Model Regulation": -

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

14808-60-7 Quartz (SiO₂)

14464-46-1 cristobalite

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic Categories

· EPA (Environmental Protection Agency)

1313-13-9 manganese dioxide

D

· IARC (International Agency for Research on Cancer)

7631-86-9 silicon dioxide

3

14808-60-7 Quartz (SiO₂)

1

14464-46-1 cristobalite

1

· TLV (Threshold Limit Value established by ACGIH)

14808-60-7 Quartz (SiO₂)

A2

14464-46-1 cristobalite

A2

· NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO₂)

14464-46-1 cristobalite

(Contd. on page 9)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

(Contd. of page 8)

- **Canada**

- **Canadian Domestic Substances List (DSL)**

- All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

- None of the ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

| | |
|------------|----------------------------|
| 7631-86-9 | silicon dioxide |
| 14808-60-7 | Quartz (SiO ₂) |

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

- None of the ingredients are listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H302 Harmful if swallowed.

- H332 Harmful if inhaled.

- H350 May cause cancer.

- H373 May cause damage to organs through prolonged or repeated exposure.

- R22 Harmful if swallowed.

- R48 Danger of serious damage to health by prolonged exposure.

- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

- R49 May cause cancer by inhalation.

- **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation

- IATA: International Air Transport Association

- GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- ACGIH: American Conference of Governmental Industrial Hygienists

- NFPA: National Fire Protection Association (USA)

- HMIS: Hazardous Materials Identification System (USA)

- WHMIS: Workplace Hazardous Materials Information System (Canada)

- DNEL: Derived No-Effect Level (REACH)

- PNEC: Predicted No-Effect Concentration (REACH)

- Acute Tox. 4: Acute toxicity, Hazard Category 4

- Carc. 1A: Carcinogenicity, Hazard Category 1A

- STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

- **Sources**

- SDS Prepared by:

- ChemTel Inc.

- 1305 North Florida Avenue

- Tampa, Florida USA 33602-2902

(Contd. on page 10)

Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 12.03.2015

Revision: 12.03.2015

Trade name: MTM

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com

(Contd. of page 9)