SECTION 1. IDENTIFICATION

Product name : MasterEmaco T 310CI
Product code : 000000000051671384 000000000051671384
Other means of identification : No data available

Manufacturer or supplier’s details
Company name of supplier : Master Builders Solutions US, LLC
Address : 23700 CHAGRIN BLVD
          Beachwood OH 44122
Emergency telephone : ChemTel: +1-813-248-0585 USA: +1-800-255-3924

Recommended use of the chemical and restrictions on use
Recommended use : Product for construction chemicals
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations
Skin corrosion/irritation : 2
Serious eye damage/eye irritation : Category 1
Specific target organ toxicity - single exposure : 3
Carcinogenicity (Inhalation) : 1A (Lung)
Specific target organ toxicity - repeated exposure (Inhalation) : 2 (Kidney, Immune system)
Specific target organ toxicity - repeated exposure (Inhalation) : Category 1

GHS label elements
Hazard pictograms : 
Signal Word : Danger
Hazard Statements : H318 Causes serious eye damage.
                    H315 Causes skin irritation.
                    H335 May cause respiratory irritation.
                    H350 May cause cancer.
                    H373 May cause damage to organs through prolonged or repeated exposure.
                    H372 Causes damage to organs through prolonged or repeated
exposure if inhaled.

Precautionary Statements:

**Prevention:**
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P201 Obtain special instructions before use.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust or mist.
P202 Do not handle until all safety precautions have been read and understood.
P270 Do not eat, drink or smoke when using this product.
P264 Wash face, hands and any exposed skin thoroughly after handling.

**Response:**
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

**Storage:**
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

**Disposal:**
P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards
No data available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature**: No applicable information available.

**Components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
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</thead>
<tbody>
<tr>
<td>crystalline silica</td>
<td>14808-60-7</td>
<td>&gt;= 25 - &lt; 50</td>
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<td>65997-15-1</td>
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<tr>
<td>Gypsum (Ca(SO4).2H2O)</td>
<td>13397-24-5</td>
<td>&gt;= 0.3 - &lt; 3</td>
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<tr>
<td>Limestone</td>
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<td>&gt;= 0 - &lt; 3</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>7631-86-9</td>
<td>&gt;= 0.1 - &lt; 3</td>
</tr>
<tr>
<td>sodium nitrite</td>
<td>7632-00-0</td>
<td>&gt;= 0.1 - &lt; 0.2</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

**General advice**
Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

**If inhaled**
Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.

**In case of skin contact**
If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

**In case of eye contact**
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

**If swallowed**
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

**Most important symptoms and effects, both acute and delayed**
Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure if inhaled.
May cause damage to organs through prolonged or repeated exposure.

**Notes to physician**
Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
Water spray
Foam
Dry powder
Carbon dioxide (CO2)

**Unsuitable extinguishing media**
High volume water jet

**Specific hazards during fire fighting**
Do not allow run-off from fire fighting to enter drains or water courses.

**Further information**
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Special protective equipment**
Wear self-contained breathing apparatus for firefighting if nec-
for fire-fighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
- Use personal protective equipment.
- Avoid dust formation.
- Avoid breathing dust.
- Ensure adequate ventilation.

Environmental precautions
- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up
- Neutralize with acid.
- Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion
- Avoid dust formation.
- Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling
- Avoid formation of respirable particles.
- Do not breathe vapors/dust.
- Avoid exposure - obtain special instructions before use.
- Avoid contact with skin and eyes.
- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- Provide sufficient air exchange and/or exhaust in workrooms.
- Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage
- Keep container tightly closed in a dry and well-ventilated place.
- Observe label precautions.
- Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions
- Containers should be stored tightly sealed in a dry place.

Materials to avoid
- Segregate from metals.
- Segregate from acids and bases.
- Segregate from oxidants.
- Segregate from foods and animal feeds.

Further information on storage stability
- No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of)</th>
<th>Control parameters / Permissible</th>
<th>Basis</th>
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4 / 14
<table>
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<th>Code</th>
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<td>NIOSH</td>
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<td>NIOSH</td>
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<td>29 CFR 1910.1000 (Table Z-1)</td>
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<td>29 CFR 1910.1000 (Table Z-1-A)</td>
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<td>10 mg/m³</td>
<td>CA QC OEL</td>
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<td>10 mg/m³</td>
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- **PEL** (Respirable fraction) = 5 mg/m³ (NIOSH 29 CFR 1910.1000 (Table Z-1))
- **PEL** (Total dust) = 15 mg/m³ (CA AB OEL & BC OEL 29 CFR 1910.1000 (Table Z-1-A))
- **TWA** (Respirable fraction) = 5 mg/m³ (29 CFR 1910.1000 (Table Z-1-A))
- **TWA** (Total dust) = 15 mg/m³ (29 CFR 1910.1000 (Table Z-1-A))
- **CA AB OEL** TWA = 10 mg/m³
- **CA QC OEL** TWA = 10 mg/m³
- **CA BC OEL** TWA = 10 mg/m³
- **CA BC OEL** TWA (Respirable dust fraction) = 3 mg/m³
- **CA BC OEL** STEL = 20 mg/m³

Silicon dioxide

- **REL value** (Respirable) = 6 mg/m³ (NIOSH)
- **TWA value** = 6 mg/m³ (29 CFR 1910.1000 (Table Z-1-A))
- **TWA value** = 20 millions of particles per cubic foot of air (29 CFR 1910.1000 (Table Z-3))
- **TWA value** = 0.8 mg/m³ (29 CFR 1910.1000 (Table Z-3))
- **TWA value** = 0.025 mg/m³ (Silica) (CA AB OEL)

Calcium sulphate

- **TWA value** (Inhalable fraction) = 10 mg/m³ (ACGIHTLV)
- **REL value** (Respirable fraction) = 5 mg/m³ (NIOSH)
- **REL value** (Total) = 10 mg/m³ (NIOSH)
- **PEL** (Respirable fraction) = 5 mg/m³ (29 CFR 1910.1000 (Table Z-1))
- **PEL** (Total dust) = 15 mg/m³ (29 CFR 1910.1000 (Table Z-1))
- **TWA value** (Respirable) = 5 mg/m³ (29 CFR 1910.1000)
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<td>Cement, portland, chemicals</td>
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</tbody>
</table>

|                               |                        |                  |                           |                         |                               |                              |                   |                             |                           |                              |                      |                             |                      |                             |                      |                     |                     |                     |
Provide local exhaust ventilation to maintain recommended P.E.L.

Breathing protection if dusts are formed.
Wear a NIOSH-certified (or equivalent) particulate respirator.

Wear a NIOSH-certified (or equivalent) particulate respirator.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Avoid contact with the skin, eyes and clothing.
Avoid inhalation of dusts.
In order to prevent contamination while handling, closed working clothes and working gloves should be used.
Handle in accordance with good building materials hygiene and safety practice.

When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

powder
gray
mild

No data available

13 (20 °C)
(as aqueous solution)

No applicable information available.

No applicable information available.

does not flash

not flammable

not self-igniting

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance
with the intended use.

Lower explosion limit / Lower flammability limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Bulk density: 1,350 kg/m³

Solubility(ies)
Water solubility: insoluble (15 °C)

Partition coefficient: n-octanol/water: The value has not been determined because the substance is inorganic.

Decomposition temperature: No decomposition if stored and handled as prescribed/indicated.

Viscosity
Viscosity, dynamic: Not applicable
Viscosity, kinematic: Not applicable

Explosive properties
Not explosive

Oxidizing properties: Based on its structural properties the product is not classified as oxidizing.

Self-heating substances: No data available

Molecular weight: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored and applied as directed.
Chemical stability: No decomposition if stored and applied as directed.
Possibility of hazardous reactions: No decomposition if stored and applied as directed.
Conditions to avoid: See SDS section 7 - Handling and storage.
Incompatible materials: Strong bases
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Skin corrosion/irritation
Causes skin irritation.
SAFETY DATA SHEET

MasterEmaco T 310CI

version 1.0  revision date: 08/06/2020  sds number: 000000259909  date of last issue: -  date of first issue: 08/06/2020

Product:
Remarks : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation
Causes serious eye damage.

Product:
Remarks : May cause irreversible eye damage.

Respiratory or skin sensitization

Skin sensitization
Not classified based on available information.

Respiratory sensitization
Not classified based on available information.

Product:
Remarks : Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-live is unlikely.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
May cause cancer.

Reproductive toxicity
Not classified based on available information.

STOT-single exposure
May cause respiratory irritation.

STOT-repeated exposure
Causes damage to organs through prolonged or repeated exposure if inhaled.
May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity
Not classified based on available information.

Further information

Product:
Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment
Acute aquatic toxicity : This product has no known ecotoxicological effects.
Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**Persistence and degradability**

**Product:**
Biodegradability : Remarks: Not applicable for inorganic substances.

**Bioaccumulative potential**

**Product:**
Bioaccumulation : Remarks: The product will not be readily bioavailable due to its consistency and insolubility in water.

**Components:**

- **crystalline silica:**
  Partition coefficient: n-octanol/water : Remarks: not applicable

- **Cement, portland, chemicals:**
  Partition coefficient: n-octanol/water : GLP: no
  Remarks: not applicable

- **Calcium sulphate:**
  Partition coefficient: n-octanol/water : GLP: no
  Remarks: The value has not been determined because the substance is inorganic.

- **Gypsum (Ca(SO4).2H2O):**
  Partition coefficient: n-octanol/water : Remarks: The value has not been determined because the substance is inorganic.

- **Silicon dioxide:**
  Partition coefficient: n-octanol/water : Remarks: not applicable

- **sodium nitrite:**

**Mobility in soil**

**Product:**
Distribution among environmental compartments : Remarks: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected. The substance will not evaporate into the atmosphere from the water surface.

**Other adverse effects**

**Product:**
Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information: There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
- Waste from residues: Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

- Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations
- UNRTDG: Not regulated as a dangerous good
- IATA-DGR: Not regulated as a dangerous good
- IMDG-Code: Not regulated as a dangerous good
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

Domestic regulation
- TDG: Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:
- DSL: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Full text of other abbreviations
SAFETY DATA SHEET

MasterEmaco T 310CI

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<th>Version</th>
<th>Revision Date</th>
<th>SDS Number</th>
<th>Date of last issue</th>
<th>Date of first issue</th>
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29 CFR 1910.1000 (Table Z-1-A): OSHA - Table Z-1-A (29 CFR 1910.1000)
29 CFR 1910.1000 (Table Z-1): OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000
29 CFR 1910.1000 (Table Z-3): OSHA Table Z-3 (Mineral Dusts) 29 CFR 1910.1000
ACGIH: USA. ACGIH Threshold Limit Values (TLV)
ACGIHTLV: American Conference of Governmental Industrial Hygienists - threshold limit values (US)
CA BC OEL: Canada. British Columbia OEL
CA ON OEL: Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
NIOSH: NIOSH Pocket Guide to Chemical Hazards (US)
29 CFR 1910.1000 (Table Z-1-A) / TWA value: Time Weighted Average (TWA):
29 CFR 1910.1000 (Table Z-1) / PEL: Permissible exposure limit
29 CFR 1910.1000 (Table Z-3) / TWA value: Time Weighted Average (TWA):
ACGIH / TWA: 8-hour, time-weighted average
ACGIHTLV / TWA value: Time Weighted Average (TWA):
CA AB OEL / TWA: 8-hour Occupational exposure limit
CA BC OEL / TWA: 8-hour time weighted average
CA BC OEL / STEL: short-term exposure limit
CA ON OEL / TWA: Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV: Time-weighted average exposure value
NIOSH / REL value: Recommended exposure limit (REL):

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;
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