

## MasterFlow 100

Version 1.0      Revision Date: 12/31/2020      SDS Number: 000000252240      Date of last issue: -  
Date of first issue: 12/31/2020

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**SECTION 1. IDENTIFICATION**

Product name : MasterFlow 100  
Product code : 00000000051669264 00000000051669264

**Manufacturer or supplier's details**

Company name of supplier : Master Builders-Construction Systems  
US, LLC  
Address : 23700 CHAGRIN BLVD  
Beachwood OH 44122  
Emergency telephone : ChemTel: +1-813-248-0585 USA: +1-800-255-3924 Contract  
Number MIS9240420

**Recommended use of the chemical and restrictions on use**

Recommended use : Product for construction chemicals  
Restrictions on use : Reserved for industrial and professional use.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Serious eye damage/eye irritation : Category 1  
Skin corrosion/irritation : Category 2  
Carcinogenicity (Inhalation) : Category 1A (Lung)  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 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

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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.

P310 Immediately call a POISON CENTER/ doctor/

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P362 + P364 Take off contaminated clothing and wash it before reuse.

**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**

In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : No data available.

**Components**

| Chemical name                                   | CAS-No.    | Concentration (% w/w) |
|---|------------|-----------------------|
| Quartz (SiO <sub>2</sub> )                      | 14808-60-7 | >= 50 - < 75          |
| Cement, portland, chemicals                     | 65997-15-1 | >= 25 - < 50          |
| calcium oxide                                   | 1305-78-8  | >= 1 - < 3            |
| Gypsum (Ca(SO <sub>4</sub> ).2H <sub>2</sub> O) | 13397-24-5 | >= 0.3 - < 3          |
| Limestone                                       | 1317-65-3  | >= 0 - < 3            |

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

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- 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 : Foam  
Water spray  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.
- Unsuitable extinguishing media : 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-

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for fire-fighters

essary.

**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 work rooms.  
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 decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

| Components | CAS-No. | Value type<br>(Form of | Control parameters / Permissible | Basis |
|------------|---------|------------------------|----------------------------------|-------|
|------------|---------|------------------------|----------------------------------|-------|

**SAFETY DATA SHEET**

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|                       |            | exposure)                          | concentration                   |                                      |
|-----------------------|------------|------------------------------------|---------------------------------|--------------------------------------|
| calcium oxide         | 1305-78-8  | TWA value                          | 2 mg/m3                         | ACGIHTLV                             |
|                       |            | REL value                          | 2 mg/m3                         | NIOSH                                |
|                       |            | PEL                                | 5 mg/m3                         | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                       |            | TWA value                          | 5 mg/m3                         | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                       |            | TWA                                | 2 mg/m3                         | ACGIH                                |
|                       |            | TWA                                | 2 mg/m3                         | NIOSH REL                            |
|                       |            | TWA                                | 5 mg/m3                         | OSHA Z-1                             |
|                       |            | TWA                                | 5 mg/m3                         | OSHA P0                              |
| Limestone             | 1317-65-3  | REL value<br>(Respirable)          | 5 mg/m3                         | NIOSH                                |
|                       |            | REL value<br>(Total)               | 10 mg/m3                        | NIOSH                                |
|                       |            | PEL (Respirable fraction)          | 5 mg/m3                         | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                       |            | PEL (Total dust)                   | 15 mg/m3                        | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                       |            | TWA value<br>(Respirable fraction) | 5 mg/m3                         | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                       |            | TWA value<br>(Total dust)          | 15 mg/m3                        | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                       |            | TWA (total dust)                   | 15 mg/m3                        | OSHA Z-1                             |
|                       |            | TWA (respirable fraction)          | 5 mg/m3                         | OSHA Z-1                             |
|                       |            | TWA (Total dust)                   | 15 mg/m3                        | OSHA P0                              |
|                       |            | TWA (respirable dust fraction)     | 5 mg/m3                         | OSHA P0                              |
|                       |            | TWA (Respirable)                   | 5 mg/m3<br>(Calcium carbonate)  | NIOSH REL                            |
|                       |            | TWA (total)                        | 10 mg/m3<br>(Calcium carbonate) | NIOSH REL                            |
| Gypsum (Ca(SO4).2H2O) | 13397-24-5 | TWA value<br>(Inhalable fraction)  | 10 mg/m3                        | ACGIHTLV                             |
|                       |            | REL value<br>(Respirable)          | 5 mg/m3                         | NIOSH                                |
|                       |            | REL value<br>(Total)               | 10 mg/m3                        | NIOSH                                |
|                       |            | PEL (Total dust)                   | 15 mg/m3                        | 29 CFR<br>1910.1000                  |

# SAFETY DATA SHEET

**MBCC** GROUP

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|                            |            |                                     |   |                                |
|----------------------------|------------|-------------------------------------|---|--------------------------------|
|                            |            |                                     |   | (Table Z-1)                    |
|                            |            | PEL (Respirable fraction)           | 5 mg/m <sup>3</sup>                         | 29 CFR 1910.1000 (Table Z-1)   |
|                            |            | TWA value (Total dust)              | 15 mg/m <sup>3</sup>                        | 29 CFR 1910.1000 (Table Z-1-A) |
|                            |            | TWA value (Respirable fraction)     | 5 mg/m <sup>3</sup>                         | 29 CFR 1910.1000 (Table Z-1-A) |
|                            |            | TWA (Respirable)                    | 5 mg/m <sup>3</sup>                         | NIOSH REL                      |
|                            |            | TWA (total)                         | 10 mg/m <sup>3</sup>                        | NIOSH REL                      |
|                            |            | TWA (total dust)                    | 15 mg/m <sup>3</sup>                        | OSHA Z-1                       |
|                            |            | TWA (respirable fraction)           | 5 mg/m <sup>3</sup>                         | OSHA Z-1                       |
|                            |            | TWA (Total dust)                    | 15 mg/m <sup>3</sup>                        | OSHA P0                        |
|                            |            | TWA (respirable dust fraction)      | 5 mg/m <sup>3</sup>                         | OSHA P0                        |
|                            |            | TWA (Inhalable particulate matter)  | 10 mg/m <sup>3</sup> (Calcium)              | ACGIH                          |
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | TWA value (Respirable fraction)     | 0.025 mg/m <sup>3</sup>                     | ACGIHTLV                       |
|                            |            | TWA value (Respirable dust)         | 0.05 mg/m <sup>3</sup>                      | 29 CFR 1910.1001-1050          |
|                            |            | OSHA Action level                   | 0.025 mg/m <sup>3</sup> (Respirable dust)   | 29 CFR 1910.1001-1050          |
|                            |            | REL value (Respirable dust)         | 0.05 mg/m <sup>3</sup>                      | NIOSH                          |
|                            |            | TWA (Respirable dust)               | 0.05 mg/m <sup>3</sup>                      | OSHA Z-1                       |
|                            |            | TWA (respirable)                    | 10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 | OSHA Z-3                       |
|                            |            | TWA (respirable)                    | 250 mppcf / %SiO <sub>2</sub> +5            | OSHA Z-3                       |
|                            |            | TWA (respirable dust fraction)      | 0.1 mg/m <sup>3</sup>                       | OSHA P0                        |
|                            |            | TWA (Respirable particulate matter) | 0.025 mg/m <sup>3</sup> (Silica)            | ACGIH                          |
|                            |            | PEL (respirable)                    | 0.05 mg/m <sup>3</sup>                      | OSHA CARC                      |
|                            |            | TWA (Respirable dust)               | 0.05 mg/m <sup>3</sup> (Silica)             | NIOSH REL                      |

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|                             |            |                                     |  |                                |
|-----------------------------|------------|-------------------------------------|--|--------------------------------|
| Cement, portland, chemicals | 65997-15-1 | TWA value (Respirable fraction)     | 1 mg/m3  | ACGIHTLV                       |
|                             |            | REL value (Total)                   | 10 mg/m3                                       | NIOSH                          |
|                             |            | REL value (Respirable)              | 5 mg/m3  | NIOSH                          |
|                             |            | PEL (Total dust)                    | 15 mg/m3                                       | 29 CFR 1910.1000 (Table Z-1)   |
|                             |            | PEL (Respirable fraction)           | 5 mg/m3  | 29 CFR 1910.1000 (Table Z-1)   |
|                             |            | TWA value (Total dust)              | 10 mg/m3                                       | 29 CFR 1910.1000 (Table Z-1-A) |
|                             |            | TWA value (Respirable fraction)     | 5 mg/m3  | 29 CFR 1910.1000 (Table Z-1-A) |
|                             |            | TWA value                           | 50 millions of particles per cubic foot of air | 29 CFR 1910.1000 (Table Z-3)   |
|                             |            | TWA (Respirable particulate matter) | 1 mg/m3  | ACGIH                          |
|                             |            | TWA (Respirable)                    | 5 mg/m3  | NIOSH REL                      |
|                             |            | TWA (total)                         | 10 mg/m3                                       | NIOSH REL                      |
|                             |            | TWA (total dust)                    | 15 mg/m3                                       | OSHA Z-1                       |
|                             |            | TWA (respirable fraction)           | 5 mg/m3  | OSHA Z-1                       |
|                             |            | TWA (Total dust)                    | 10 mg/m3                                       | OSHA P0                        |
|                             |            | TWA (respirable dust fraction)      | 5 mg/m3  | OSHA P0                        |
|                             |            | TWA (Dust)                          | 50 Million particles per cubic foot            | OSHA Z-3                       |

**Engineering measures** : Provide local exhaust ventilation to maintain recommended P.E.L.

**Personal protective equipment**

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

Hand protection

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

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

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|                          |   |  |
|--------------------------|---|--|
| Skin and body protection | : | Choose body protection according to the amount and concentration of the dangerous substance at the work place.   |
| Protective measures      | : | Avoid contact with the skin, eyes and clothing.<br>Avoid inhalation of dusts.<br>In order to prevent contamination while handling, closed working clothes and working gloves should be used.<br>Handle in accordance with good building materials hygiene and safety practice. |
| Hygiene measures         | : | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.   |

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |  |
|--|---|--|
| Appearance                                       | : | powder   |
| Color  | : | gray   |
| Odor   | : | mild   |
| Odor Threshold                                   | : | Not determined due to potential health hazard by inhalation.   |
| pH   | : | approx. 13 (approx. 68 °F / 20 °C)<br>(as aqueous suspension)  |
| Melting temperature                              | : | > 1,832 °F / > 1,000 °C  |
| Boiling point                                    | : | No applicable information available.   |
| Flash point                                      | : | Not applicable   |
| Evaporation rate                                 | : | No applicable information available.   |
| Flammability (solid, gas)                        | : | not flammable  |
| Upper explosion limit / Upper 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. |
| 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. |
| Vapor pressure                                   | : | No applicable information available.   |
| Relative vapor density                           | : | No applicable information available.   |
| Relative density                                 | : | No applicable information available.   |
| Density  | : | Not applicable   |
| Bulk density                                     | : | approx. 1.25 g/cm <sup>3</sup>   |
| Solubility(ies)                                  | : |  |



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|  |   |   |
|--|---|---|
| Water solubility                       | : | insoluble (59 °F / 15 °C)                                       |
| Solubility in other solvents           | : | No applicable information available.                            |
| Partition coefficient: n-octanol/water | : | No applicable information available.                            |
| Autoignition temperature               | : | No applicable information available.                            |
| Decomposition temperature              | : | No decomposition if stored and handled as prescribed/indicated. |
| Viscosity                              |   |   |
| Viscosity, dynamic                     | : | Not applicable  |
| Viscosity, kinematic                   | : | No applicable information available.                            |
| Explosive properties                   | : | Not explosive<br>Not explosive                                  |
| Oxidizing properties                   | : | not fire-propagating  |
| Self-heating substances                | : | No data available   |
| Sublimation point                      | : | No applicable information available.                            |
| Metal corrosion rate                   | : | Corrosive effects to metal are not anticipated.                 |

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**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<br>Strong acids   |
| Hazardous decomposition products   | : | No hazardous decomposition products if stored and handled as prescribed/indicated. |

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

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**Respiratory sensitization**

Not classified based on available information.

**Product:**

Remarks : Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life 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 : The product has not been tested. The statement has been derived from the properties of the individual components.

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**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.

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**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.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with national, state and local regulations.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
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.

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**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****49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**

**US State Regulations**

**Pennsylvania Right To Know**

|                             |            |
|-----------------------------|------------|
| calcium oxide               | 1305-78-8  |
| Limestone                   | 1317-65-3  |
| Silicon dioxide             | 7631-86-9  |
| Gypsum (Ca(SO4).2H2O)       | 13397-24-5 |
| Cement, portland, chemicals | 65997-15-1 |
| crystalline silica          | 14808-60-7 |

**New Jersey Right To Know**

|                             |            |
|-----------------------------|------------|
| calcium oxide               | 1305-78-8  |
| Limestone                   | 1317-65-3  |
| Cement, portland, chemicals | 65997-15-1 |
| crystalline silica          | 14808-60-7 |

**California Prop. 65**

WARNING: This product can expose you to chemicals including Quartz (SiO2), Quartz (SiO2), which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

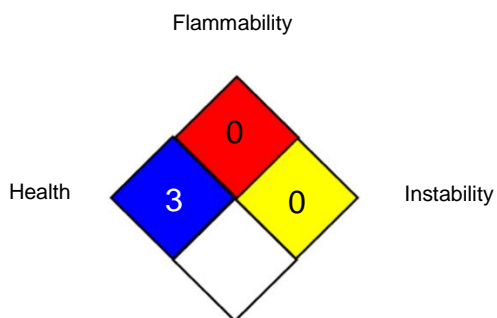
**The ingredients of this product are reported in the following inventories:**

TSCA : On the inventory, or in compliance with the inventory

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA 704:**



**HMIS® IV:**

|                        |  |  |
|------------------------|--|--|
| <b>HEALTH</b>          |  |  |
| <b>FLAMMABILITY</b>    |  |  |
| <b>PHYSICAL HAZARD</b> |  |  |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1-A (29 CFR 1910.1000)

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1-A)  
 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  
 29 CFR 1910.1001-1050 : OSHA - Specifically Regulated Substances (29 CFR 1910.1001-1050)  
 ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 ACGIHTLV : American Conference of Governmental Industrial Hygienists - threshold limit values (US)  
 NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens  
 OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
 OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts  
 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):  
 29 CFR 1910.1001-1050 / OSHA Action level : OSHA Action level:  
 29 CFR 1910.1001-1050 / TWA value : Time Weighted Average (TWA):  
 ACGIH / TWA : 8-hour, time-weighted average  
 ACGIHTLV / TWA value : Time Weighted Average (TWA):  
 NIOSH / REL value : Recommended exposure limit (REL):  
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
 OSHA CARC / PEL : Permissible exposure limit (PEL)  
 OSHA P0 / TWA : 8-hour time weighted average  
 OSHA Z-1 / TWA : 8-hour time weighted average  
 OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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;

## MasterFlow 100

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| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
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LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 12/31/2020

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