

**MasterProtect HB 100 medium**

Version 1.0      Revision Date: 09/18/2020      SDS Number: 000000261381      Date of last issue: -  
Date of first issue: 09/18/2020

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**SECTION 1. IDENTIFICATION**

Product name : MasterProtect HB 100 medium  
Product code : 00000000051712671 00000000051712671

**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

**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**

Carcinogenicity : 1A

**GHS label elements**

Hazard pictograms :



Signal Word : Danger  
Hazard Statements : H350 May cause cancer.  
Precautionary Statements :

**Prevention:**

P280 Wear protective gloves/ protective clothing/ eye protection/  
face protection.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read  
and understood.

**Response:**

P308 + P311 IF exposed or concerned: Call a POISON  
CENTER/ doctor.

**Storage:**

P405 Store locked up.

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**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 data available.

**Components**

| Chemical name   | CAS-No.    | Concentration (% w/w) |
|---|------------|-----------------------|
| Limestone   | 1317-65-3  | >= 5 - < 15           |
| Perlite, expanded   | 93763-70-3 | >= 3 - < 5            |
| Titanium dioxide  | 13463-67-7 | >= 1 - < 5            |
| Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol                       | 25265-77-4 | >= 0 - < 3            |
| Mica-group minerals   | 12001-26-2 | >= 0 - < 3            |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic                             | 64742-65-0 | >= 0.3 - < 1          |
| Quartz (SiO <sub>2</sub> )  | 14808-60-7 | >= 0 - < 1            |
| Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | 9036-19-5  | >= 0.1 - < 0.2        |
| 2-octyl-4-isothiazol-3-ones   | 26530-20-1 | >= 0 - < 0.1          |

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
 Show this material safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : After contact with skin, wash immediately with plenty of water and soap.  
 Under no circumstances should organic solvent be used.  
 If irritation develops, seek medical attention.
- In case of eye contact : Flush eyes with water as a precaution.  
 Remove contact lenses.  
 Protect unharmed eye.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.  
 Keep respiratory tract clear.

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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 : May cause cancer.

Notes to physician : Treat symptomatically.

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**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : See SDS section 7 - Handling and storage.

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Product is not explosive.

Normal measures for preventive fire protection.

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- Advice on safe handling : 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.  
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 : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.  
Protect from direct sunlight.
- Materials to avoid : Observe VCI storage rules.
- Recommended storage temperature : 41 °F / 5 °C
- Further information on storage stability : Minimum storage temperature:

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

| Components | CAS-No.   | Value type (Form of exposure)   | Control parameters / Permissible concentration | Basis                          |
|------------|-----------|---------------------------------|--|--------------------------------|
| Limestone  | 1317-65-3 | REL value (Respirable)          | 5 mg/m <sup>3</sup>                            | NIOSH                          |
|            |           | REL value (Total)               | 10 mg/m <sup>3</sup>                           | NIOSH                          |
|            |           | PEL (Respirable fraction)       | 5 mg/m <sup>3</sup>                            | 29 CFR 1910.1000 (Table Z-1)   |
|            |           | PEL (Total dust)                | 15 mg/m <sup>3</sup>                           | 29 CFR 1910.1000 (Table Z-1)   |
|            |           | TWA value (Respirable fraction) | 5 mg/m <sup>3</sup>                            | 29 CFR 1910.1000 (Table Z-1-A) |
|            |           | TWA value (Total dust)          | 15 mg/m <sup>3</sup>                           | 29 CFR 1910.1000 (Table Z-1-A) |
|            |           | TWA (total dust)                | 15 mg/m <sup>3</sup>                           | OSHA Z-1                       |
|            |           | TWA (respirable fraction)       | 5 mg/m <sup>3</sup>                            | OSHA Z-1                       |

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|   |            |                                     |  |                                |
|---|------------|-------------------------------------|--|--------------------------------|
|   |            | 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                      |
| Mica-group minerals                                       | 12001-26-2 | TWA value (Respirable fraction)     | 3 mg/m3  | ACGIHTLV                       |
|   |            | REL value (Respirable)              | 3 mg/m3  | NIOSH                          |
|   |            | TWA value (Respirable dust)         | 3 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 (Respirable particulate matter) | 3 mg/m3  | ACGIH                          |
|   |            | TWA (Dust)                          | 20 Million particles per cubic foot            | OSHA Z-3                       |
|   |            | TWA (Respirable)                    | 3 mg/m3  | NIOSH REL                      |
|   |            | TWA (respirable dust fraction)      | 3 mg/m3  | OSHA P0                        |
| Titanium dioxide  | 13463-67-7 | TWA value                           | 10 mg/m3                                       | ACGIHTLV                       |
|   |            | PEL (Total dust)                    | 15 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 (total dust)                    | 15 mg/m3                                       | OSHA Z-1                       |
|   |            | TWA (Total dust)                    | 10 mg/m3                                       | OSHA P0                        |
|   |            | TWA                                 | 10 mg/m3<br>(Titanium dioxide)                 | ACGIH                          |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 | TWA value (Inhalable fraction)      | 5 mg/m3  | ACGIHTLV                       |
|   |            | Ceil_Time                           | 1,800 mg/m3                                    | NIOSH                          |
|   |            | REL value                           | 350 mg/m3                                      | NIOSH                          |
|   |            | STEL value (Mist)                   | 10 mg/m3                                       | NIOSH                          |
|   |            | REL value                           | 5 mg/m3  | NIOSH                          |

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|                            |            |  |  |                                      |
|----------------------------|------------|--|--|--------------------------------------|
|                            |            | (Mist)                                       |  |                                      |
|                            |            | PEL  | 500 ppm<br>2,000 mg/m <sup>3</sup>             | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                            |            | PEL (Mist)                                   | 5 mg/m <sup>3</sup>                            | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                            |            | TWA value<br>(Mist)                          | 5 mg/m <sup>3</sup>                            | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                            |            | TWA (Mist)                                   | 5 mg/m <sup>3</sup>                            | OSHA Z-1                             |
|                            |            | TWA (Inhal-<br>able particu-<br>late matter) | 5 mg/m <sup>3</sup>                            | ACGIH                                |
|                            |            | TWA (Mist)                                   | 5 mg/m <sup>3</sup>                            | OSHA P0                              |
|                            |            | TWA (Mist)                                   | 5 mg/m <sup>3</sup>                            | NIOSH REL                            |
|                            |            | ST (Mist)                                    | 10 mg/m <sup>3</sup>                           | NIOSH REL                            |
| Perlite, expanded          | 93763-70-3 | REL value<br>(Respirable)                    | 5 mg/m <sup>3</sup>                            | NIOSH                                |
|                            |            | REL value<br>(Total)                         | 10 mg/m <sup>3</sup>                           | NIOSH                                |
|                            |            | TWA value<br>(Respirable<br>fraction)        | 5 mg/m <sup>3</sup>                            | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                            |            | TWA value<br>(Total dust)                    | 15 mg/m <sup>3</sup>                           | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                            |            | TWA (Res-<br>pirable)                        | 5 mg/m <sup>3</sup>                            | NIOSH REL                            |
|                            |            | TWA (total)                                  | 10 mg/m <sup>3</sup>                           | NIOSH REL                            |
|                            |            | TWA (Total<br>dust)                          | 15 mg/m <sup>3</sup>                           | OSHA P0                              |
|                            |            | TWA (respir-<br>able dust<br>fraction)       | 5 mg/m <sup>3</sup>                            | OSHA P0                              |
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | TWA value<br>(Respirable<br>fraction)        | 0.025 mg/m <sup>3</sup>                        | ACGIHTLV                             |
|                            |            | TWA value<br>(Respirable dust)               | 0.05 mg/m <sup>3</sup>                         | 29 CFR<br>1910.1001-<br>1050         |
|                            |            | OSHA Action<br>level                         | 0.025 mg/m <sup>3</sup><br>(Respirable dust)   | 29 CFR<br>1910.1001-<br>1050         |
|                            |            | REL value<br>(Respirable<br>dust)            | 0.05 mg/m <sup>3</sup>                         | NIOSH                                |
|                            |            | TWA (Res-<br>pirable dust)                   | 0.05 mg/m <sup>3</sup>                         | OSHA Z-1                             |
|                            |            | TWA (respir-<br>able)                        | 10 mg/m <sup>3</sup> /<br>%SiO <sub>2</sub> +2 | OSHA Z-3                             |
|                            |            | TWA (respir-<br>able)                        | 250 mppcf /<br>%SiO <sub>2</sub> +5            | OSHA Z-3                             |
|                            |            | TWA (respir-<br>able)                        | 0.1 mg/m <sup>3</sup>                          | OSHA P0                              |

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|  |  |                                     |                                  |           |
|--|--|-------------------------------------|----------------------------------|-----------|
|  |  | able dust fraction)                 |                                  |           |
|  |  | 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 |

**Engineering measures** : No applicable information available.

**Personal protective equipment**

Respiratory protection : Wear a NIOSH-certified (or equivalent) respirator as necessary.

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

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

Protective measures : Do not inhale gases/vapours/aerosols.  
Avoid contact with the skin, eyes and clothing.  
Avoid exposure - obtain special instructions before use.  
Handle in accordance with good building materials hygiene and safety practice.  
Wearing of closed work clothing is recommended.

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : No applicable information available.

Odor : product specific

Odor Threshold : No data available

pH : neutral to slightly alkaline

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Melting point : No applicable information available.

Boiling point : No data available

Flash point : negligible

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not determined

Upper explosion limit / Upper flammability limit : No applicable information available.

Lower explosion limit / Lower flammability limit : No applicable information available.

Vapor pressure : No data available

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Density : approx. 1.00 g/cm<sup>3</sup> (68 °F / 20 °C)

Solubility(ies)

    Water solubility : No data available

    Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : No applicable information available.

Autoignition temperature : No data available

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

Viscosity

    Viscosity, dynamic : No applicable information available.

    Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive  
Not explosive

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

Sublimation point : No applicable information available.

Molecular weight : No data available



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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 acids  
Strong bases  
Strong oxidizing agents  
Strong reducing agents
- 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.

**Product:**

- Acute oral toxicity : Remarks: No applicable information available.
- Acute inhalation toxicity : Remarks: No applicable information available.
- Acute dermal toxicity : Remarks: No applicable information available.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

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

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

May cause cancer.

**Reproductive toxicity**

Not classified based on available information.

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**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration hazard expected.

**Further information****Product:**

Remarks : No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****2-octyl-4-isothiazol-3-ones:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

**Persistence and degradability****Components:****Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]- .omega.-hydroxy-:**

Biodegradability : aerobic  
 Inoculum: activated sludge, domestic, non-adapted  
 Result: Readily biodegradable.  
 Biodegradation: 90 %  
 Exposure time: 28 d  
 Method: Modified OECD-Screening-Test.

**Bioaccumulative potential****Components:****Perlite, expanded:**

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

**Titanium dioxide:**

Partition coefficient: n- : Remarks: not applicable

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octanol/water

**Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol:**

Partition coefficient: n-octanol/water : log Pow: 3.2 (77 °F / 25 °C)  
 pH: 7  
 Method: Partition coefficient (n-octanol/water), HPLC method.  
 GLP: no

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Partition coefficient: n-octanol/water : Remarks: Study technically not feasible.

**Quartz (SiO<sub>2</sub>):**

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

**Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]- .omega.-hydroxy-:**

Bioaccumulation : Remarks: Accumulation in organisms is not to be expected.

**2-octyl-4-isothiazol-3-ones:**

Partition coefficient: n-octanol/water : log Pow: 2.61 (77 °F / 25 °C)  
 pH: 7  
 Method: other (calculated)

**Mobility in soil**

No data available

**Other adverse effects****Product:**

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 : 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.

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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

**SECTION 15. REGULATORY INFORMATION****US State Regulations****Pennsylvania Right To Know**

|                     |            |
|---------------------|------------|
| propane-1,2-diol    | 57-55-6    |
| Limestone           | 1317-65-3  |
| Mica-group minerals | 12001-26-2 |
| Titanium dioxide    | 13463-67-7 |

**New Jersey Right To Know**

|                            |            |
|----------------------------|------------|
| propane-1,2-diol           | 57-55-6    |
| Limestone                  | 1317-65-3  |
| Mica-group minerals        | 12001-26-2 |
| Titanium dioxide           | 13463-67-7 |
| Perlite, expanded          | 93763-70-3 |
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 |

**California Prop. 65**

WARNING: This product can expose you to chemicals including acrylamide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. 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:**

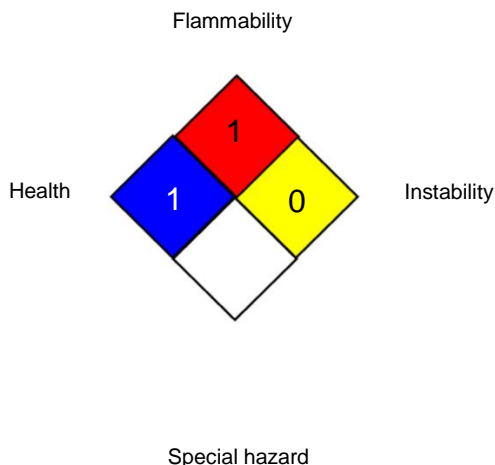
TSCA : On the inventory, or in compliance with the inventory

**SECTION 16. OTHER INFORMATION****Further information**

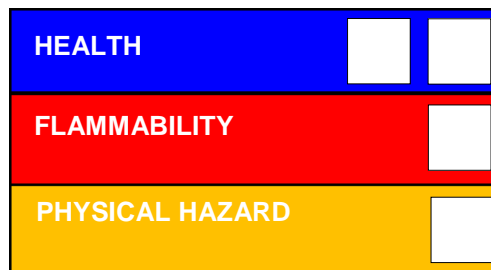
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**NFPA 704:**



**HMIS® IV:**



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-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
- 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 / Ceil\_Time : Ceiling Limit Value and Time Period (if specified):

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|                    |   |   |
|--------------------|---|---|
| NIOSH / REL value  | : | Recommended exposure limit (REL):   |
| NIOSH / STEL value | : | Short Term Exposure Limit (STEL):   |
| NIOSH REL / TWA    | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST     | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday    |
| 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; 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 : 09/18/2020

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|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 09/18/2020     | 000000261381 | Date of first issue: 09/18/2020 |

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