

**MasterSeal 581 prl gry**

Version 1.1      Revision Date: 07/19/2021      SDS Number: 000000261456      Date of last issue: 07/19/2021  
Date of first issue: 07/19/2021

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**SECTION 1. IDENTIFICATION**

Product name : MasterSeal 581 prl gry  
Product code : 000000000050354711 000000000050354711

**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.

National Emergency Telephone Number : USA: +1-800-255-3924 ChemTel contract no. MIS9240420

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Skin irritation : Category 2  
Serious eye damage : Category 1  
Carcinogenicity (Inhalation) : Category 1A  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 1 (Lungs)  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Kidney, Immune system)

**GHS label elements**

Hazard pictograms : 

Signal Word : Danger

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Hazard Statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H350 May cause cancer by inhalation.  
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.  
H373 May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

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

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash 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 an approved waste disposal plant.

**Other hazards**

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

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

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|---------|-----------------------|
|---------------|---------|-----------------------|

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|-----------------------------|------------|--------------|
| Cement, portland, chemicals | 65997-15-1 | >= 30 - < 50 |
| crystalline silica          | 14808-60-7 | >= 30 - < 50 |
| Calcium dihydroxide         | 1305-62-0  | >= 1 - < 5   |
| Titanium dioxide            | 13463-67-7 | >= 1 - < 5   |

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

- General advice : First aid personnel should pay attention to their own safety.  
Remove contaminated clothing.
- If inhaled : After inhalation of dust.  
Keep patient calm, remove to fresh air.  
If difficulties occur:  
Seek medical attention.
- 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 : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.  
Do not induce vomiting unless told to by a poison control center or doctor.
- 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.  
Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.  
May cause cancer by inhalation.  
Causes damage to organs through prolonged or repeated exposure if inhaled.

## 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.

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- Unsuitable extinguishing media : water jet
- Specific hazards during fire fighting : Product is not combustible or explosive. Exposure to decomposition products may be a hazard to health.
- Hazardous combustion products : harmful vapours
- Further information : Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and chemical-protective clothing.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.
- Environmental precautions : Do not discharge into drains/surface waters/groundwater.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Rinse with plenty of water. Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : No special precautions necessary.
- Advice on safe handling : Avoid dust formation. Avoid inhalation of dusts. Avoid contact with skin and eyes. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

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

Materials to avoid : No applicable information available.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

| Components          | CAS-No.   | Value type (Form of exposure)       | Control parameters / Permissible concentration | Basis                          |
|---------------------|-----------|-------------------------------------|--|--------------------------------|
| Calcium dihydroxide | 1305-62-0 | TWA value                           | 5 mg/m3  | ACGIHTLV                       |
|                     |           | REL value                           | 5 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                           | 5 mg/m3  | 29 CFR 1910.1000 (Table Z-1-A) |
|                     |           | TWA                                 | 5 mg/m3  | ACGIH                          |
|                     |           | TWA                                 | 5 mg/m3  | NIOSH REL                      |
|                     |           | TWA (total dust)                    | 15 mg/m3                                       | OSHA Z-1                       |
|                     |           | TWA (respirable fraction)           | 5 mg/m3  | OSHA Z-1                       |
| calcium oxide       | 1305-78-8 | TWA                                 | 5 mg/m3  | OSHA P0                        |
|                     |           | TWA                                 | 2 mg/m3  | ACGIH                          |
|                     |           | TWA                                 | 2 mg/m3  | NIOSH REL                      |
|                     |           | TWA                                 | 5 mg/m3  | OSHA Z-1                       |
| Iron oxide          | 1309-37-1 | TWA                                 | 5 mg/m3  | OSHA P0                        |
|                     |           | TWA (Respirable particulate matter) | 5 mg/m3  | ACGIH                          |
|                     |           | TWA (dust and fume)                 | 5 mg/m3 (Iron)                                 | NIOSH REL                      |
|                     |           | TWA (Fumes)                         | 10 mg/m3                                       | OSHA Z-1                       |
|                     |           | TWA (total dust)                    | 15 mg/m3                                       | OSHA Z-1                       |
| magnesium oxide     | 1309-48-4 | TWA (respirable fraction)           | 5 mg/m3  | OSHA Z-1                       |
|                     |           | TWA (Fumes)                         | 10 mg/m3                                       | OSHA P0                        |
|                     |           | TWA (Inhalable particulate matter)  | 10 mg/m3                                       | ACGIH                          |
|                     |           | TWA (fume,                          | 15 mg/m3                                       | OSHA Z-1                       |

**SAFETY DATA SHEET**

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|-----------------------|------------|--------------------------------------|--------------------|--------------------------------|
|                       |            | total particulate)                   |                    |                                |
|                       |            | TWA (Fume - total particulate)       | 10 mg/m3           | OSHA P0                        |
| Limestone             | 1317-65-3  | REL value (Respirable)               | 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 fraction)      | 5 mg/m3            | 29 CFR 1910.1000 (Table Z-1-A) |
|                       |            | TWA value (Total dust)               | 15 mg/m3           | 29 CFR 1910.1000 (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) (Calcium carbonate) | 5 mg/m3            | NIOSH REL                      |
|                       |            | TWA (total) (Calcium carbonate)      | 10 mg/m3           | NIOSH REL                      |
| Gypsum (Ca(SO4).2H2O) | 13397-24-5 | 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)                     | 15 mg/m3           | OSHA P0                        |
|                       |            | TWA (respirable dust fraction)       | 5 mg/m3            | OSHA P0                        |
|                       |            | TWA (Inhalable particulate matter)   | 10 mg/m3 (Calcium) | ACGIH                          |
| Titanium dioxide      | 13463-67-7 | TWA (total dust)                     | 15 mg/m3           | OSHA Z-1                       |
|                       |            | TWA (Total                           | 10 mg/m3           | OSHA P0                        |

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|-----------------------------|------------|-------------------------------------|--|--------------------------------------|
|                             |            | dust)                               |  |                                      |
|                             |            | TWA                                 | 10 mg/m <sup>3</sup><br>(Titanium dioxide)           | ACGIH                                |
| Quartz (SiO <sub>2</sub> )  | 14808-60-7 | TWA (Respirable dust)               | 0.05 mg/m <sup>3</sup>                               | OSHA Z-1                             |
|                             |            | TWA (respirable)                    | 10 mg/m <sup>3</sup> /<br>%SiO <sub>2</sub> +2       | OSHA Z-3                             |
|                             |            | TWA (respirable)                    | 250 mppcf /<br>%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><br>(Silica)                  | ACGIH                                |
|                             |            | PEL (respirable)                    | 0.05 mg/m <sup>3</sup>                               | OSHA CARC                            |
|                             |            | TWA (Respirable dust)               | 0.05 mg/m <sup>3</sup><br>(Silica)                   | NIOSH REL                            |
| Cement, portland, chemicals | 65997-15-1 | TWA value (Respirable fraction)     | 1 mg/m <sup>3</sup>                                  | ACGIHTLV                             |
|                             |            | REL value (Total)                   | 10 mg/m <sup>3</sup>                                 | NIOSH                                |
|                             |            | REL value (Respirable)              | 5 mg/m <sup>3</sup>                                  | NIOSH                                |
|                             |            | PEL (Total dust)                    | 15 mg/m <sup>3</sup>                                 | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                             |            | PEL (Respirable fraction)           | 5 mg/m <sup>3</sup>                                  | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                             |            | TWA value (Total dust)              | 10 mg/m <sup>3</sup>                                 | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                             |            | TWA value (Respirable fraction)     | 5 mg/m <sup>3</sup>                                  | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                             |            | TWA value                           | 50 millions of<br>particles per cubic<br>foot of air | 29 CFR<br>1910.1000<br>(Table Z-3)   |
|                             |            | TWA (Respirable particulate matter) | 1 mg/m <sup>3</sup>                                  | ACGIH                                |
|                             |            | 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)                         | 10 mg/m <sup>3</sup>                                 | OSHA P0                              |

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|--|--|--------------------------------|-------------------------------------|----------|
|  |  | dust)                          |                                     |          |
|  |  | TWA (respirable dust fraction) | 5 mg/m3                             | OSHA P0  |
|  |  | TWA (Dust)                     | 50 Million particles per cubic foot | OSHA Z-3 |

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

**Personal protective equipment**

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

Hand protection

Remarks : Chemical resistant protective gloves Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection : Tightly fitting safety goggles (chemical goggles).

Skin and body protection : Body protection must be chosen based on level of activity and exposure.

Protective measures : 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.

Hygiene measures : When using, do not eat, drink or smoke.  
 Hands and/or face should be washed before breaks and at the end of the shift.  
 At the end of the shift the skin should be cleaned and skin-care agents applied.  
 Gloves must be inspected regularly and prior to each use.  
 Replace if necessary (e.g. pinhole leaks).  
 Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Color : various colours

Odor : earthy

pH : slightly alkaline



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|  |   |  |
|--|---|--|
| Melting temperature                              | : | No data available  |
| Boiling point                                    | : | No applicable information available.   |
| Flash point                                      | : | Not applicable   |
| Evaporation rate                                 | : | No applicable information available.   |
| Flammability (solid, gas)                        | : | not determined   |
| Self-ignition                                    | : | not self-igniting  |
| Upper explosion limit / Upper flammability limit | : | No applicable information available.   |
| Lower explosion limit / Lower flammability limit | : | No applicable information available.   |
| Vapor pressure                                   | : | No applicable information available.   |
| Relative vapor density                           | : | No applicable information available.   |
| Relative density                                 | : | 2.70   |
| Density  | : | Not applicable   |
| Bulk density                                     | : | 1,800 - 2,400 kg/m <sup>3</sup>  |
| 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 applicable information available.   |
| Decomposition temperature                        | : | No decomposition if stored and handled as prescribed/indicated.                |
| Viscosity  |   |  |
| Viscosity, dynamic                               | : | No data available.   |
| Viscosity, kinematic                             | : | No applicable information available.   |
| Explosive properties                             | : | Not explosive<br>Not explosive   |
| Oxidizing properties                             | : | Based on its structural properties the product is not classified as oxidizing. |
| Self-heating substances                          | : | No data available  |

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Sublimation point : No applicable information available.

Molecular weight : No applicable information available.

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability : The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions : Strong bases are formed on the addition of water. The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid : Avoid dust formation.  
Avoid humidity.

Incompatible materials : Strong bases  
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.

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**

Causes skin irritation.

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye damage.

Causes serious eye damage.

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

Not classified based on available information.

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**Skin sensitization**

Not classified based on available information.

**Respiratory 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-life is unlikely.

**Germ cell mutagenicity**

Not classified based on available information.

Not classified based on available information.

**Carcinogenicity**

May cause cancer.

May cause cancer by inhalation.

**Reproductive toxicity**

Not classified based on available information.

Not classified based on available information.

**STOT-single exposure**

May cause respiratory irritation.

May cause respiratory irritation.

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure if inhaled.

Causes damage to organs (Lung, Kidney, Immune system) through prolonged or repeated exposure if inhaled.

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

**Aspiration toxicity**

Not classified based on available information.

Not classified based on available information.

**Experience with human exposure****Product:**

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

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

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have 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.

**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:**

Additional ecological information : Do not discharge product into the environment without control. 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 local authority regulations. Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Completely emptied packagings can be given for recycling. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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

DSL : This product contains one or more components not listed on the Canadian DSL or NDSL. All other components are on the Canadian DSL.

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

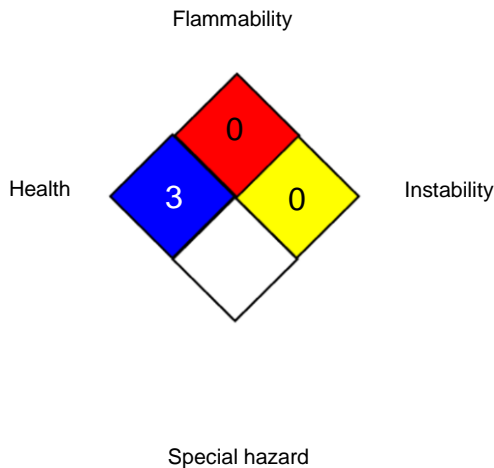
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**SECTION 16. OTHER INFORMATION****Further information**

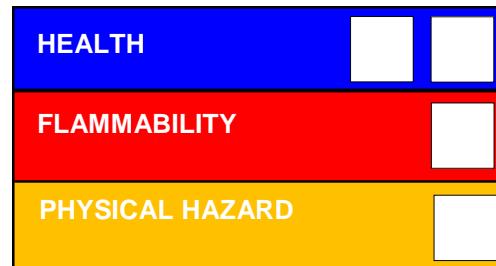
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**NFPA 704:**



**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
- 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):
- 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

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AIIC - Australian Inventory of Industrial Chemicals; 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 : 07/19/2021

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