

# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

**SECTION 1. IDENTIFICATION** 

Product name : MasterFlow 4316

Product code : 00000000050288115 00000000050288115

Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : Master Builders Solutions Canada Inc.

Address : 1800 CLARK BLVD

Brampton ON L6T 4M7

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.

**SECTION 2. HAZARDS IDENTIFICATION** 

GHS classification in accordance with the Hazardous Products Regulations

Skin corrosion/irritation : 2

Serious eye damage/eye

irritation

Category 1

Carcinogenicity (Inhalation) : 1A (Lung)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

2 (Kidney, Immune system)

Specific target organ toxicity

- single exposure

3 (Respiratory system)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 1

**GHS** label elements

Hazard pictograms

E.

**(!)** 



Signal Word : Danger



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

Hazard Statements : H318 Causes serious eye damage.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated

exposure if inhaled.

Precautionary Statements : Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

P201 Obtain special instructions before use.

P271 Use only outdoors or in a well-ventilated area.

P260 Do not breathe dust or mist.

P202 Do not handle until all safety precautions have been read

and understood.

P270 Do not eat, drink or smoke when using this product.

P264 Wash face, hands and any exposed skin thoroughly after

handling.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap

and water.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazardous

waste collection point.

Other hazards

None known.

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

Chemical nature : No applicable information available.

#### Components

| Chemical name               | CAS-No.    | Concentration (% w/w) |
|-----------------------------|------------|-----------------------|
| Cement, portland, chemicals | 65997-15-1 | >= 25 - < 75          |
| calcium oxide               | 1305-78-8  | >= 1 - < 7            |
| Quartz (SiO2)               | 14808-60-7 | >= 0 - < 3            |



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

| Iron oxide            | 1309-37-1  | >= 0 - < 10 |
|-----------------------|------------|-------------|
| magnesium oxide       | 1309-48-4  | >= 0 - < 3  |
| Limestone             | 1317-65-3  | >= 0 - < 7  |
| Silicon dioxide       | 7631-86-9  | >= 1 - < 5  |
| Calcium sulphate      | 7778-18-9  | >= 0 - < 7  |
| Gypsum (Ca(SO4).2H2O) | 13397-24-5 | >= 0 - < 3  |

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

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 tis-

sue 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.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Foam

Dry powder

# MBCC GROUP

# MasterFlow 4316

Version **Revision Date:** SDS Number: Date of last issue: -

000000539831 Date of first issue: 07/27/2020 1.0 07/27/2020

Water spray

Carbon dioxide (CO2)

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- :

tive equipment and emer-

gency 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 ap-

plication 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



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

the technological safety standards.

Further information on stor-

age 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 stor-

age 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<br>exposure)   | Control parameters / Permissible concentration | Basis                                |
|---------------|-----------|---------------------------------------|--|--------------------------------------|
| calcium oxide | 1305-78-8 | TWA value                             | 2 mg/m3  | ACGIHTLV                             |
|               |           | REL value                             | 2 mg/m3  | NIOSH                                |
|               |           | PEL                                   | 5 mg/m3  | 29 CFR                               |
|               |           |                                       |  | 1910.1000                            |
|               |           |                                       |  | (Table Z-1)                          |
|               |           | TWA value                             | 5 mg/m3  | 29 CFR                               |
|               |           |                                       |  | 1910.1000                            |
|               |           |                                       |  | (Table Z-1-A)                        |
|               |           | TWA                                   | 2 mg/m3  | CA AB OEL                            |
|               |           | TWA                                   | 2 mg/m3  | CA BC OEL                            |
|               |           | TWAEV                                 | 2 mg/m3  | CA QC OEL                            |
|               |           | TWA                                   | 2 mg/m3  | ACGIH                                |
| Iron oxide    | 1309-37-1 | TWA value<br>(Respirable<br>fraction) | 5 mg/m3  | ACGIHTLV                             |
|               |           | REL value<br>(Dust and<br>fume)       | 5 mg/m3<br>(iron (Fe))                         | NIOSH                                |
|               |           | PEL<br>(fumes/smok                    | 10 mg/m3                                       | 29 CFR<br>1910.1000                  |
|               |           | e)                                    |  | (Table Z-1)                          |
|               |           | TWA value<br>(fumes/smok<br>e)        | 10 mg/m3                                       | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|               |           | TWA (Respirable)                      | 5 mg/m3  | CA AB OEL                            |
|               |           | TWA<br>(Fumes)                        | 5 mg/m3<br>(Iron)                              | CA BC OEL                            |
|               |           | TWA (Dust)                            | 5 mg/m3<br>(Iron)                              | CA BC OEL                            |
|               |           | STEL<br>(Fumes)                       | 10 mg/m3<br>(Iron)                             | CA BC OEL                            |
|               |           | TWAEV                                 | 5 mg/m3  | CA QC OEL                            |



# **MasterFlow 4316**

Version Revision Date: SDS Number: Date of last issue: -

|                 | Ī         | (fume and        | (Iron)       | 1                        |
|-----------------|-----------|------------------|--------------|--------------------------|
|                 |           | dust)            |              |                          |
|                 |           | TWA (Res-        | 5 mg/m3      | ACGIH                    |
|                 |           | pirable par-     |              |                          |
|                 |           | ticulate mat-    |              |                          |
|                 |           | ter)             |              |                          |
| magnesium oxide | 1309-48-4 | TWA value        | 10 mg/m3     | ACGIHTLV                 |
|                 |           | (Inhalable       |              |                          |
|                 |           | fraction)        |              |                          |
|                 |           | PEL (Total       | 15 mg/m3     | 29 CFR                   |
|                 |           | particulate)     |              | 1910.1000                |
|                 |           | T) A / A         | 40/0         | (Table Z-1)              |
|                 |           | TWA value        | 10 mg/m3     | 29 CFR                   |
|                 |           | (Total partic-   |              | 1910.1000                |
|                 |           | ulate)<br>TWA    | 10 mg/m2     | (Table Z-1-A) CA AB OEL  |
|                 |           | (Fumes)          | 10 mg/m3     | CA AD UEL                |
|                 |           | TWA (Inhal-      | 10 mg/m3     | CA BC OEL                |
|                 |           | able fume)       | (Magnesium)  | OA BO OEL                |
|                 |           | TWA (Res-        | 3 mg/m3      | CA BC OEL                |
|                 |           | pirable dust     | (Magnesium)  | OA BO OLL                |
|                 |           | and fume)        | (Magnesiani) |                          |
|                 |           | STEL (Res-       | 10 mg/m3     | CA BC OEL                |
|                 |           | pirable dust     | (Magnesium)  | 0/120 022                |
|                 |           | and fume)        | ( 13 111 )   |                          |
|                 |           | TWAEV            | 10 mg/m3     | CA QC OEL                |
|                 |           | (Fumes)          | (Magnesium)  |                          |
|                 |           | TWA (Inhal-      | 10 mg/m3     | ACGIH                    |
|                 |           | able particu-    |              |                          |
|                 |           | late matter)     |              |                          |
| Limestone       | 1317-65-3 | REL value        | 5 mg/m3      | NIOSH                    |
|                 |           | (Respirable)     |              |                          |
|                 |           | REL value        | 10 mg/m3     | NIOSH                    |
|                 |           | (Total)          |              |                          |
|                 |           | PEL (Respir-     | 5 mg/m3      | 29 CFR                   |
|                 |           | able fraction)   |              | 1910.1000<br>(Table 7.4) |
|                 |           | DEL /Total       | 45 mm m/mm 2 | (Table Z-1)              |
|                 |           | PEL (Total dust) | 15 mg/m3     | 29 CFR<br>1910.1000      |
|                 |           | uusi)            |              | (Table Z-1)              |
|                 |           | TWA value        | 5 mg/m3      | 29 CFR                   |
|                 |           | (Respirable      | o mg/mo      | 1910.1000                |
|                 |           | fraction)        |              | (Table Z-1-A)            |
|                 |           | TWA value        | 15 mg/m3     | 29 CFR                   |
|                 |           | (Total dust)     | 32           | 1910.1000                |
|                 |           | ,                |              | (Table Z-1-A)            |
|                 |           | TWA              | 10 mg/m3     | CA AB OEL                |
|                 |           | TWAEV (to-       | 10 mg/m3     | CA QC OEL                |
|                 |           | tal dust)        |              |                          |
|                 |           | TWA (Total       | 10 mg/m3     | CA BC OEL                |
|                 |           | dust)            |              |                          |
|                 |           | TWA (respir-     | 3 mg/m3      | CA BC OEL                |
|                 |           | able dust        |              |                          |
|                 |           | fraction)        |              |                          |



# **MasterFlow 4316**

Version Revision Date: SDS Number: Date of last issue: -

|                       |            | STEL   | 20 mg/m3                                       | CA BC OEL                            |
|-----------------------|------------|--|--|--------------------------------------|
| Silicon dioxide       | 7631-86-9  | REL value                                    | 6 mg/m3  | NIOSH                                |
|                       |            | TWA value                                    | 6 mg/m3  | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                       |            | TWA value                                    | 20 millions of particles per cubic foot of air | 29 CFR<br>1910.1000<br>(Table Z-3)   |
|                       |            | TWA value                                    | 0.8 mg/m3                                      | 29 CFR<br>1910.1000<br>(Table Z-3)   |
|                       |            | TWA (Respirable particulates)                | 0.025 mg/m3<br>(Silica)                        | CA AB OEL                            |
| Calcium sulphate      | 7778-18-9  | TWA value<br>(Inhalable<br>fraction)         | 10 mg/m3                                       | ACGIHTLV                             |
|                       |            | 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<br>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 (Inhal-<br>able)                         | 10 mg/m3                                       | CA BC OEL                            |
|                       |            | TWAEV (respirable dust)                      | 5 mg/m3  | CA QC OEL                            |
|                       |            | TWAEV (to-<br>tal dust)                      | 10 mg/m3                                       | CA QC OEL                            |
|                       |            | TWA  | 10 mg/m3<br>(Calcium)                          | CA AB OEL                            |
|                       |            | TWA (Inhal-<br>able particu-<br>late matter) | 10 mg/m3<br>(Calcium)                          | ACGIH                                |
| Gypsum (Ca(SO4).2H2O) | 13397-24-5 | TWA value<br>(Inhalable<br>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                  |



# **MasterFlow 4316**

Version Revision Date: SDS Number: Date of last issue: -

| 1                           | 1          | ſ              | I                 | (Table Z-1)   |
|-----------------------------|------------|----------------|-------------------|---------------|
|                             |            | PEL (Respir-   | 5 mg/m3           | 29 CFR        |
|                             |            | able fraction) | o mg/mo           | 1910.1000     |
|                             |            |                |                   | (Table Z-1)   |
|                             |            | TWA value      | 15 mg/m3          | 29 CFR        |
|                             |            | (Total dust)   | l s mg, me        | 1910.1000     |
|                             |            | (101010001)    |                   | (Table Z-1-A) |
|                             |            | TWA value      | 5 mg/m3           | 29 CFR        |
|                             |            | (Respirable    | l a mg/ma         | 1910.1000     |
|                             |            | fraction)      |                   | (Table Z-1-A) |
|                             |            | TWA            | 10 mg/m3          | CA AB OEL     |
|                             |            | TWA (Total     | 10 mg/m3          | CA BC OEL     |
|                             |            | dust)          | l s mg, me        |               |
|                             |            | TWA (respir-   | 3 mg/m3           | CA BC OEL     |
|                             |            | able dust      | l a mg/ma         |               |
|                             |            | fraction)      |                   |               |
|                             |            | STEL           | 20 mg/m3          | CA BC OEL     |
|                             |            | TWAEV          | 5 mg/m3           | CA QC OEL     |
|                             |            | (respirable    | ,g,o              |               |
|                             |            | dust)          |                   |               |
|                             |            | TWAEV (to-     | 10 mg/m3          | CA QC OEL     |
|                             |            | tal dust)      | 101119/1110       | 07. 00 022    |
|                             |            | TWA (Inhal-    | 10 mg/m3          | ACGIH         |
|                             |            | able particu-  | (Calcium)         | 7.00          |
|                             |            | late matter)   | (Caronann)        |               |
| Quartz (SiO2)               | 14808-60-7 | TWA value      | 0.025 mg/m3       | ACGIHTLV      |
| Quanta (0.02)               |            | (Respirable    | 0.0_0g,           | 7.00          |
|                             |            | fraction)      |                   |               |
|                             |            | TWA value      | 0.05 mg/m3        | 29 CFR        |
|                             |            | 111711414141   | (Respirable dust) | 1910.1001-    |
|                             |            |                | ( 23)             | 1050          |
|                             |            | OSHA Action    | 0.025 mg/m3       | 29 CFR        |
|                             |            | level          | (Respirable dust) | 1910.1001-    |
|                             |            |                |                   | 1050          |
|                             |            | REL value      | 0.05 mg/m3        | NIOSH         |
|                             |            | (Respirable    |                   |               |
|                             |            | dust)          |                   |               |
|                             |            | TWA (Res-      | 0.025 mg/m3       | CA AB OEL     |
|                             |            | pirable par-   |                   |               |
|                             |            | ticulates)     |                   |               |
|                             |            | TWA (Res-      | 0.1 mg/m3         | CA ON OEL     |
|                             |            | pirable frac-  |                   |               |
|                             |            | tion)          |                   |               |
|                             |            | TWAEV          | 0.1 mg/m3         | CA QC OEL     |
|                             |            | (respirable    |                   |               |
|                             |            | dust)          |                   |               |
|                             |            | TWA (Res-      | 0.025 mg/m3       | CA BC OEL     |
|                             |            | pirable)       | (Silica)          |               |
|                             |            | TWA (Res-      | 0.025 mg/m3       | ACGIH         |
|                             |            | pirable par-   | (Silica)          |               |
|                             |            | ticulate mat-  |                   |               |
|                             |            | ter)           |                   |               |
| Cement, portland, chemicals | 65997-15-1 | TWA value      | 1 mg/m3           | ACGIHTLV      |
|                             |            |                |                   |               |



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

| 1             | 1          | fraction)                             | 1  |                                      |
|---------------|------------|---------------------------------------|--|--------------------------------------|
|               |            | REL value<br>(Total)                  | 10 mg/m3                                       | NIOSH                                |
|               |            | REL value<br>(Respirable)             | 5 mg/m3  | NIOSH                                |
|               |            | PEL (Total dust)                      | 15 mg/m3                                       | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|               |            | PEL (Respirable fraction)             | 5 mg/m3  | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|               |            | TWA value<br>(Total dust)             | 10 mg/m3                                       | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|               |            | TWA value<br>(Respirable<br>fraction) | 5 mg/m3  | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|               |            | TWA value                             | 50 millions of particles per cubic foot of air | 29 CFR<br>1910.1000<br>(Table Z-3)   |
|               |            | TWA<br>TWA (Respirable)               | 10 mg/m3<br>1 mg/m3                            | CA AB OEL<br>CA BC OEL               |
|               |            | TWAEV<br>(respirable<br>dust)         | 5 mg/m3  | CA QC OEL                            |
|               |            | TWAEV (to-<br>tal dust)               | 10 mg/m3                                       | CA QC OEL                            |
|               |            | TWA (Respirable particulate matter)   | 1 mg/m3  | ACGIH                                |
| Quartz (SiO2) | 14808-60-7 | TWA value<br>(Respirable<br>fraction) | 0.025 mg/m3                                    | ACGIHTLV                             |
|               |            | REL value<br>(Respirable<br>dust)     | 0.05 mg/m3                                     | NIOSH                                |
|               |            | TWA value                             | 0.05 mg/m3<br>(Respirable dust)                | 29 CFR<br>1910.1001-<br>1050         |
|               |            | OSHA Action<br>level                  | 0.025 mg/m3<br>(Respirable dust)               | 29 CFR<br>1910.1001-<br>1050         |
|               |            | TWA (Respirable particulates)         | 0.025 mg/m3                                    | CA AB OEL                            |
|               |            | TWA (Res-<br>pirable frac-<br>tion)   | 0.1 mg/m3                                      | CA ON OEL                            |
|               |            | TWAEV<br>(respirable<br>dust)         | 0.1 mg/m3                                      | CA QC OEL                            |
|               |            | TWA (Res-                             | 0.025 mg/m3                                    | CA BC OEL                            |



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

|  | pirable)   | (Silica)                |       |
|--|--|-------------------------|-------|
|  | TWA (Res-<br>pirable par-<br>ticulate mat-<br>ter) | 0.025 mg/m3<br>(Silica) | ACGIH |

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.

Skin and body protection : Choose body protection according to the amount and con-

centration of the dangerous substance at the work place.

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 or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Color : gray

Odor : faint odour

Odor Threshold : Not determined due to potential health hazard by inhalation.

pH : 13 (20 °C)

(as aqueous solution)

Melting point : No applicable information available.



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

Freezing point No applicable information available.

Boiling point : No applicable information available.

Flash point : does not flash

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not determined

Self-ignition : not self-igniting

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.

Bulk density : 1.25 g/m3

Solubility(ies)

Water solubility : insoluble (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 pre-

scribed/indicated.

Viscosity

Viscosity, dynamic : No applicable information available.

Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Oxidizing properties : Not an oxidizer.

Self-heating substances : No data available



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

Sublimation point : No applicable information available.

Molecular weight : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability: No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

: No decomposition if stored and applied as directed.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong bases

Strong acids

Hazardous decomposition

products

No hazardous decomposition products if stored and handled

as prescribed/indicated.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

# **Acute toxicity**

Not classified based on available information.

#### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

## Respiratory sensitization

Not classified based on available information.

## **Product:**

Remarks : Chromate in this product has been reduced. Sensitization due

to chromate within stated shelf-live is unlikely.

# Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

May cause cancer.

## Reproductive toxicity

Not classified based on available information.



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

#### STOT-single exposure

May cause respiratory irritation.

## STOT-repeated exposure

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

## **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.

#### **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

**Bioaccumulative potential** 

**Product:** 

Bioaccumulation : Remarks: The product will not be readily bioavailable due to

its consistency and insolubility in water.

Components:

Cement, portland, chemicals:

Partition coefficient: n- : GLP: no

octanol/water Remarks: not applicable

calcium oxide:

Partition coefficient: n-

Remarks: The value has not been determined because the

octanol/water substance is inorganic.

Quartz (SiO2):

Partition coefficient: n-

octanol/water

: Remarks: not applicable

# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

Iron oxide:

Partition coefficient: n-

octanol/water

Remarks: Study scientifically not justified.

magnesium oxide:

Partition coefficient: n-

octanol/water

Remarks: No data available.

Silicon dioxide:

Partition coefficient: n-

octanol/water

Remarks: not applicable

Calcium sulphate:

Partition coefficient: n-

octanol/water

GLP: no

Remarks: The value has not been determined because the

substance is inorganic.

**Gypsum (Ca(SO4).2H2O):** 

Partition coefficient: n-

octanol/water

Remarks: The value has not been determined because the

substance is inorganic.

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 infor-

mation

Observe allowable values of impurities of effluents discharged in water and soil (according regulation of ministry of the envi-

ronment from November, 18th, 2014, law gazette pos. 1800

(Poland)

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.



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Dispose of in accordance with national, state and local regula-

tions.

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 sub-

stance/product.

#### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

**UNRTDG** 

Not regulated as a dangerous good

**IATA-DGR** 

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**Domestic regulation** 

**TDG** 

Not regulated as a dangerous good

## **SECTION 15. REGULATORY INFORMATION**

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

DSL : All components of this product are on the Canadian DSL

TSCA : All chemical substances in this product are either listed as

active on the TSCA Inventory or are in compliance with a

TSCA Inventory exemption.

#### **SECTION 16. OTHER INFORMATION**

Full text of other abbreviations

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

1-A)

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR

1910.1000

29 CFR 1910.1000 (Table Z- : OSHA Table Z-3 (Mineral Dusts) 29 CFR 1910.1000

# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

3)

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)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA ON OEL : Ontario Table of Occupational Exposure Limits made under

the Occupational Health and Safety Act.

CA QC OEL : Québec. Regulation respecting occupational health and safe-

ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants

NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)

29 CFR 1910.1000 (Table Z- : Time Weighted Average (TWA):

1-A) / TWA value

29 CFR 1910.1000 (Table Z- : Permissible exposure limit

1) / PEL

29 CFR 1910.1000 (Table Z- : Time Weighted Average (TWA):

3) / TWA value

29 CFR 1910.1001-1050 / : OSHA Action level:

**OSHA** Action level

29 CFR 1910.1001-1050 / : Time Weighted Average (TWA):

TWA value

ACGIH / TWA : 8-hour, time-weighted average
ACGIHTLV / TWA value : Time Weighted Average (TWA):
CA AB OEL / TWA : 8-hour Occupational exposure limit
CA BC OEL / TWA : 8-hour time weighted average
CA BC OEL / STEL : short-term exposure limit

CA ON OEL / TWA : Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV : Time-weighted average exposure value
NIOSH / REL value : Recommended exposure limit (REL):

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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, Bioaccumu-



# MasterFlow 4316

Version Revision Date: SDS Number: Date of last issue: -

1.0 07/27/2020 000000539831 Date of first issue: 07/27/2020

lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 07/27/2020

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