

**MasterSeal 945 aggregate**

Version 1.0      Revision Date: 08/05/2020      SDS Number: 000000919866      Date of last issue: -  
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**SECTION 1. IDENTIFICATION**

Product name : MasterSeal 945 aggregate  
Product code : 000000000050668808 000000000050668808  
Other means of identification : No data available

**Manufacturer or supplier's details**

Company name of supplier : MBSCS Canada, Inc.  
Address : 7111 Syntex Drive, 3rd Floor  
Mississauga ON L5N 8C3  
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 the Hazardous Products Regulations**

No need for classification according to GHS criteria for this product.

**GHS label elements**

The product does not require a hazard warning label in accordance with GHS criteria.

**Other hazards**

No data available.

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

Chemical nature : No applicable information available.

**Components**

| Chemical name   | CAS-No.   | Concentration (% w/w) |
|-----------------|-----------|-----------------------|
| calcium oxide   | 1305-78-8 | $\geq 0.3 - < 1$      |
| magnesium oxide | 1309-48-4 | $\geq 25 - < 50$      |
| Iron oxide      | 1309-37-1 | $\geq 15 - < 20$      |
| aluminium oxide | 1344-28-1 | $\geq 1 - < 3$        |

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**SECTION 4. FIRST AID MEASURES**

General advice : Do not leave the victim unattended.  
If inhaled : If unconscious, place in recovery position and seek medical

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- 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 : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : None known.
- 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
- Hazardous combustion products : harmful vapours  
nitrogen oxides  
fumes/smoke  
carbon black  
carbon oxides
- 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 : Avoid dust formation.
- Environmental precautions : Contain contaminated water/firefighting water.

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Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

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

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : 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 : No applicable information available.  
  
No materials to be especially mentioned.

Further information on storage stability : No data 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 oxide | 1305-78-8 | TWA value                       | 2 mg/m <sup>3</sup>                            | ACGIHTLV                       |
|               |           | REL value                       | 2 mg/m <sup>3</sup>                            | NIOSH                          |
|               |           | PEL                             | 5 mg/m <sup>3</sup>                            | 29 CFR 1910.1000 (Table Z-1)   |
|               |           | TWA value                       | 5 mg/m <sup>3</sup>                            | 29 CFR 1910.1000 (Table Z-1-A) |
| Iron oxide    | 1309-37-1 | TWA                             | 2 mg/m <sup>3</sup>                            | CA AB OEL                      |
|               |           | TWA                             | 2 mg/m <sup>3</sup>                            | CA BC OEL                      |
|               |           | TWAEV                           | 2 mg/m <sup>3</sup>                            | CA QC OEL                      |
|               |           | TWA                             | 2 mg/m <sup>3</sup>                            | ACGIH                          |
|               |           | TWA value (Respirable fraction) | 5 mg/m <sup>3</sup>                            | ACGIHTLV                       |
|               |           | REL value (Dust and (iron (Fe)) | 5 mg/m <sup>3</sup>                            | NIOSH                          |
|               |           |                                 |  |                                |

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|-----------------|-----------|-------------------------------------|-------------------------------------|--------------------------------------|
|                 |           | fume)                               |                                     |                                      |
|                 |           | PEL<br>(fumes/smoke)                | 10 mg/m <sup>3</sup>                | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                 |           | TWA value<br>(fumes/smoke)          | 10 mg/m <sup>3</sup>                | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                 |           | TWA (Respirable)                    | 5 mg/m <sup>3</sup>                 | CA AB OEL                            |
|                 |           | TWA<br>(Fumes)                      | 5 mg/m <sup>3</sup><br>(Iron)       | CA BC OEL                            |
|                 |           | TWA (Dust)                          | 5 mg/m <sup>3</sup><br>(Iron)       | CA BC OEL                            |
|                 |           | STEL<br>(Fumes)                     | 10 mg/m <sup>3</sup><br>(Iron)      | CA BC OEL                            |
|                 |           | TWAEV<br>(fume and dust)            | 5 mg/m <sup>3</sup><br>(Iron)       | CA QC OEL                            |
|                 |           | TWA (Respirable particulate matter) | 5 mg/m <sup>3</sup>                 | ACGIH                                |
| magnesium oxide | 1309-48-4 | TWA value<br>(Inhalable fraction)   | 10 mg/m <sup>3</sup>                | ACGIHTLV                             |
|                 |           | PEL (Total particulate)             | 15 mg/m <sup>3</sup>                | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                 |           | TWA value<br>(Total particulate)    | 10 mg/m <sup>3</sup>                | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|                 |           | TWA<br>(Fumes)                      | 10 mg/m <sup>3</sup>                | CA AB OEL                            |
|                 |           | TWA (Inhalable fume)                | 10 mg/m <sup>3</sup><br>(Magnesium) | CA BC OEL                            |
|                 |           | TWA (Respirable dust and fume)      | 3 mg/m <sup>3</sup><br>(Magnesium)  | CA BC OEL                            |
|                 |           | STEL (Respirable dust and fume)     | 10 mg/m <sup>3</sup><br>(Magnesium) | CA BC OEL                            |
|                 |           | TWAEV<br>(Fumes)                    | 10 mg/m <sup>3</sup><br>(Magnesium) | CA QC OEL                            |
|                 |           | TWA (Inhalable particulate matter)  | 10 mg/m <sup>3</sup>                | ACGIH                                |
| aluminium oxide | 1344-28-1 | TWA value<br>(Respirable fraction)  | 1 mg/m <sup>3</sup>                 | ACGIHTLV                             |
|                 |           | PEL (Respirable fraction)           | 5 mg/m <sup>3</sup>                 | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|                 |           | PEL (Total dust)                    | 15 mg/m <sup>3</sup>                | 29 CFR<br>1910.1000                  |

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|  |  |                                     |                     |                                |
|--|--|-------------------------------------|---------------------|--------------------------------|
|  |  |                                     |                     | (Table Z-1)                    |
|  |  | TWA value (Respirable fraction)     | 5 mg/m3             | 29 CFR 1910.1000 (Table Z-1-A) |
|  |  | TWA value (Total dust)              | 10 mg/m3            | 29 CFR 1910.1000 (Table Z-1-A) |
|  |  | TWA                                 | 10 mg/m3            | CA AB OEL                      |
|  |  | TWAEV (total dust)                  | 10 mg/m3 (Aluminum) | CA QC OEL                      |
|  |  | TWA (Respirable)                    | 1 mg/m3 (Aluminum)  | CA BC OEL                      |
|  |  | TWA (Respirable particulate matter) | 1 mg/m3 (Aluminum)  | ACGIH                          |

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

**Personal protective equipment**

Respiratory protection : Wear appropriate certified respirator when exposure limits may be exceeded.  
 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 : Safety glasses

Skin and body protection : Protective suit

Protective measures : Avoid inhalation of dusts.  
 Wearing of closed work clothing is required additionally to the stated personal protection equipment.  
 Avoid exposure - obtain special instructions before use.  
 Handle in accordance with good building materials hygiene and safety practice.

Hygiene measures : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : granules

Color : grey to green

Odor : faint odour

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|  |   |   |
|--|---|---|
| Odor Threshold                                   | : | No data available   |
| pH   | : | No applicable information available.                            |
| Melting point                                    | : | No applicable information available.                            |
| Freezing point                                   | : | No applicable information available.                            |
| Boiling point                                    | : | No applicable information available.                            |
| Flash point                                      | : | not applicable  |
| Evaporation rate                                 | : | No applicable information available.                            |
| Flammability (solid, gas)                        | : | not flammable<br>The product is not combustible.                |
| 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                                 | : | No applicable information available.                            |
| Density  | : | 3.0000 g/cm <sup>3</sup> (20.00 °C)                             |
| Solubility(ies)                                  | : |   |
| Water solubility                                 | : | insoluble (20.00 °C)  |
| Solubility in other solvents                     | : | No applicable information available.                            |
| Partition coefficient: n-octanol/water           | : | No applicable information available.                            |
| Autoignition temperature                         | : | No applicable information available.                            |
| Decomposition temperature                        | : | No decomposition if stored and handled as prescribed/indicated. |
| Viscosity  | : |   |
| Viscosity, dynamic                               | : | No applicable information available.                            |
| Viscosity, kinematic                             | : | No applicable information available.                            |
| Oxidizing properties                             | : | Not an oxidizer.  |
| Sublimation point                                | : | No applicable information available.                            |

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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 : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

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.

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**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**

Not classified based on available information.

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**Reproductive toxicity**

Not classified based on available information.

**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.

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

Remarks : No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****calcium oxide:**

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

**magnesium oxide:**

Partition coefficient: n-octanol/water : Remarks: No data available.

**Iron oxide:**

Partition coefficient: n-octanol/water : Remarks: Study scientifically not justified.

**aluminium oxide:**

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

**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.

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The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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

- Waste from residues : Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.
- Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**Domestic regulation****TDG**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****The ingredients of this product are reported in the following inventories:**

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

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

- 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
- 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

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CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)

29 CFR 1910.1000 (Table Z-1-A) / TWA value : Time Weighted Average (TWA):

29 CFR 1910.1000 (Table Z-1) / PEL : Permissible exposure limit

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 QC OEL / TWA EV : 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, Bioaccumulative 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

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We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in

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a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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