

## MasterFlow 928 GRT

Version            Revision Date:            SDS Number:            Date of last issue: 01/05/2021  
2.0                11/22/2022                000000259973            Date of first issue: 05/15/2020

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**SECTION 1. IDENTIFICATION**

Product name                                : MasterFlow 928 GRT  
Product code                                : 000000000051681772 000000000051681772  
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;  
National Emergency Tele-                 : USA: +1-800-255-3924 ChemTel contract no. MIS9240420  
phone Number

**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**

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

**GHS label elements**

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Hazard pictograms

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Signal Word

: Danger

Hazard Statements

: H318 Causes serious eye damage.  
 H315 Causes skin irritation.  
 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.  
 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.

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

Chemical nature : modified cement mortar

**Components**

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Quartz (SiO <sub>2</sub> )	crystalline silica	14808-60-7	>= 30 - < 50
Cement, portland, chemicals	Portland cement	65997-15-1	>= 30 - < 50
aluminium oxide	alumina	1344-28-1	>= 5 - < 10
calcium oxide	quicklime	1305-78-8	>= 1 - < 5
Silicon dioxide	Silica	7631-86-9	>= 1 - < 5
Calcium sulphate	Sulfuric acid, calcium salt (1:1)	7778-18-9	>= 1 - < 5
magnesium oxide	magnesia	1309-48-4	>= 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 : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses. Seek medical advice. 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 serious eye damage. Causes skin irritation. May cause respiratory irritation. May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure if inhaled. Prolonged or repeated inhalation of respirable crystalline silica



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fire and explosion

Advice on safe handling : Avoid dust formation.  
Do NOT breathe dust because it is hazardous to respiratory system.  
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.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid : Keep away from water.  
Segregate from metals.  
Segregate from acids and bases.  
Segregate from oxidants.  
Segregate from foods and animal feeds.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Cement, portland, chemicals	65997-15-1	TWA	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Respirable)	1 mg/m <sup>3</sup>	CA BC OEL
		TWAEV (respirable dust)	1 mg/m <sup>3</sup>	CA QC OEL
		TWA (Respirable particulate matter)	1 mg/m <sup>3</sup>	ACGIH
Quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable particulates)	0.025 mg/m <sup>3</sup>	CA AB OEL
		TWA (Respirable fraction)	0.1 mg/m <sup>3</sup>	CA ON OEL
		TWAEV (respirable dust)	0.1 mg/m <sup>3</sup>	CA QC OEL
		TWA (Respirable)	0.025 mg/m <sup>3</sup> (Silica)	CA BC OEL
		TWA (Res-	0.025 mg/m <sup>3</sup>	ACGIH

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		pirable particulate matter)	(Silica)	
aluminium oxide	1344-28-1	TWA	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV (total dust)	10 mg/m <sup>3</sup> (Aluminum)	CA QC OEL
		TWA (Respirable)	1 mg/m <sup>3</sup> (Aluminum)	CA BC OEL
		TWA (Respirable particulate matter)	1 mg/m <sup>3</sup> (Aluminum)	ACGIH
calcium oxide	1305-78-8	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
Silicon dioxide	7631-86-9	TWA (Respirable particulates)	0.025 mg/m <sup>3</sup> (Silica)	CA AB OEL
Calcium sulphate	7778-18-9	TWA (Inhalable)	10 mg/m <sup>3</sup>	CA BC OEL
		TWA	10 mg/m <sup>3</sup> (Calcium)	CA AB OEL
		TWA (Inhalable particulate matter)	10 mg/m <sup>3</sup> (Calcium)	ACGIH
magnesium oxide	1309-48-4	TWA (Fumes)	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Inhalable fume)	10 mg/m <sup>3</sup> (Magnesium)	CA BC OEL
		TWA (Respirable dust and fume)	3 mg/m <sup>3</sup> (Magnesium)	CA BC OEL
		STEL (Respirable dust and fume)	10 mg/m <sup>3</sup> (Magnesium)	CA BC OEL
		TWAEV (inhalable dust)	10 mg/m <sup>3</sup>	CA QC OEL
		TWA (Inhalable particulate matter)	10 mg/m <sup>3</sup>	ACGIH

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

**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

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- 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 : Do not inhale vapours or dust.  
Avoid contact with the skin, eyes and clothing.  
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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : powder
- Color : gray
- Odor : mild, earthy
- Odor Threshold : Not determined due to potential health hazard by inhalation.
- pH : 13 (20 °C)  
(as aqueous solution)
- Melting point : Not applicable
- Freezing point : Not applicable
- Boiling point : Not applicable
- Flash point : does not flash
- Evaporation rate : Not applicable
- Flammability (solid, gas) : not flammable
- Upper explosion limit / Upper : As a result of our experience with this product and our

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flammability limit	:	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	:	Not applicable
Relative vapor density	:	Not applicable
Density	:	Not applicable
Bulk density	:	approx. 1,250 kg/m <sup>3</sup>
Solubility(ies)	:	
Water solubility	:	insoluble (15 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	Not applicable
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity	:	
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	Based on its structural properties the product is not classified as oxidizing.
Sublimation point	:	No data available
Molecular weight	:	Not applicable
Metal corrosion rate	:	No corrosive effect on metal.

**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 pre-



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scribed/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.

**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-life is unlikely.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

May cause cancer by inhalation.

<b>IARC</b>	Group 1: Carcinogenic to humans	
	Quartz (SiO <sub>2</sub> )	14808-60-7
	(Silica dust, crystalline)	

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

May cause respiratory irritation.

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**STOT-repeated exposure**

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.

**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.

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**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 : Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

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****TDG**

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:**

TSCA : All substances listed as active on the TSCA inventory

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

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

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ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
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 safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
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 / TWA EV	:	Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; 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; KECl - 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; TECl - Thailand Existing Chemicals 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; WHMIS - Workplace Hazardous Materials Information System

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide-

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ance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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