

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

SECTION 1. IDENTIFICATION

Product name : MasterFlow 928 GRT

Product code : 00000000055361244 000000000055361244

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

National Emergency Tele-

phone Number

USA: +1-800-255-3924 ChemTel contract no. MIS9240420

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 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 (Inhala-

tion)

Category 1 (Lungs)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

: Category 2 (Kidney, Immune system)

GHS label elements

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Hazard pictograms







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	CAS-No.	Concentration (% w/w)
Quartz (SiO2)	14808-60-7	>= 30 - < 50
Cement, portland, chemicals	65997-15-1	>= 30 - < 50
aluminium oxide	1344-28-1	>= 5 - < 10
calcium oxide	1305-78-8	>= 1 - < 5
Silicon dioxide	7631-86-9	>= 1 - < 5
Calcium sulphate	7778-18-9	>= 1 - < 5
magnesium oxide	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 cen-

ter 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

(quartz) may result in silicosis.

Notes to physician : Treat symptomatically.

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SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Foam

Water spray Dry powder

Carbon dioxide (CO2)

Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are

sufficient.

Unsuitable extinguishing

media

water jet

Specific hazards during fire

fighting

Product is not combustible or explosive.

Hazardous combustion prod: :

ucts

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Avoid dust formation.

Avoid contact with skin and eyes.

Do not inhale dusts.

Use personal protective clothing. Wear appropriate respiratory protection.

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.

Keep in suitable, closed containers for disposal.

Rinse with plenty of water.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

No special precautions necessary.

Advice on safe handling : Avoid dust formation.

Do NOT breathe dust because it is hazardous to respiratory



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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 de-

canted 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 (Respirable particulate matter)	1 mg/m3	ACGIH
		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)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Dust)	50 Million parti- cles per cubic foot	OSHA Z-3
Quartz (SiO2)	14808-60-7	TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable dust	0.1 mg/m3	OSHA P0



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I	I	l (see all a see	1	<u> </u>
		fraction)	0.005 / 0	400111
		TWA (Res-	0.025 mg/m3	ACGIH
		pirable par-	(Silica)	
		ticulate mat-		
		ter)		
		TWA (Res-	0.05 mg/m3	NIOSH REL
		pirable dust)	(Silica)	
aluminium oxide	1344-28-1	TWA (total	15 mg/m3	OSHA Z-1
		dust)		
		TWA (respir-	5 mg/m3	OSHA Z-1
		able fraction)		
		TWA (Total	10 mg/m3	OSHA P0
		dust)	To mg/mo	0011/110
		TWA (respir-	5 mg/m3	OSHA P0
		able dust	5 mg/ms	USHA PU
		fraction)		40000
		TWA (Res-	1 mg/m3	ACGIH
		pirable par-	(Aluminum)	
		ticulate mat-		
		ter)		
calcium oxide	1305-78-8	TWA	2 mg/m3	ACGIH
		TWA	2 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
Silicon dioxide	7631-86-9	TWA (Dust)	20 Million parti-	OSHA Z-3
Ollicon dioxide	7031003	TVVA (Dust)	cles per cubic foot	0011/12/3
			(Silica)	
		TWA (Dust)	80 mg/m3 /	OSHA Z-3
		TVVA (Dust)	%SiO2	USHA 2-3
		TIMA (D	(Silica)	NICOLLEGE
		TWA (Res-	0.05 mg/m3	NIOSH REL
		pirable dust)	(Silica)	
		TWA	6 mg/m3	NIOSH REL
			(Silica)	
Calcium sulphate	7778-18-9	TWA (Res-	5 mg/m3	NIOSH REL
		pirable)		
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total	15 mg/m3	OSHA Z-1
		dust)	J. J.	
		TWA (respir-	5 mg/m3	OSHA Z-1
		able fraction)	3 mg/mo	33.17.2
		TWA (Total	15 mg/m3	OSHA P0
		`	13 1119/1113	OSHA PU
		dust)	F	00114 50
		TWA (respir-	5 mg/m3	OSHA P0
		able dust		
		fraction)		
		TWA (Inhal-	10 mg/m3	ACGIH
		able particu-	(Calcium)	
		late matter)		
magnesium oxide	1309-48-4	TWA (Inhal-	10 mg/m3	ACGIH
3		able particu-		
		late matter)		
		TWA (fume,	15 mg/m3	OSHA Z-1
		total particu-	13 1119/1113	3311A Z-1
		liotai particu-		<u> </u>



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late)		
TWA (Fume -	10 mg/m3	OSHA P0
total particu-		
late)		

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 direc-

tions 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 : 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : gray

Odor : mild, earthy

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



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pH : 13 (68 °F / 20 °C)

(as aqueous solution)

Melting 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

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 : Not applicable

Relative vapor density : Not applicable

Density : Not applicable

Bulk density : approx. 1,250 kg/m3

Solubility(ies)

Water solubility : insoluble (59 °F / 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 pre-

scribed/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.

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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 pre-

scribed/indicated.

Chemical stability : The product is stable if stored and handled as pre-

scribed/indicated.

Possibility of hazardous reac-

tions

Strong bases are formed on the addition of water.

The product is stable if stored and handled as pre-

scribed/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.

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.



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Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation.

IARC Group 1: Carcinogenic to humans

Quartz (SiO2) 14808-60-7

(Silica dust, crystalline)

NTP Known to be human carcinogen

Quartz (SiO2) 14808-60-7

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

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.

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.



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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 environ-

mental 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 infor-

mation

: Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxi-

cology have been derived from the properties of the individual

components.

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 regula-

tions.

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.

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

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

aluminium oxide 1344-28-1 >= 5 - < 10 %

US State Regulations

Pennsylvania Right To Know

Cement, portland, chemicals	65997-15-1
Quartz (SiO2)	14808-60-7
aluminium oxide	1344-28-1
calcium oxide	1305-78-8
Silicon dioxide	7631-86-9
Calcium sulphate	7778-18-9
magnesium oxide	1309-48-4
sodium sulphate	7757-82-6

New Jersey Right To Know

Cement, portland, chemicals	65997-15-1
Quartz (SiO2)	14808-60-7
aluminium oxide	1344-28-1
calcium oxide	1305-78-8
Calcium sulphate	7778-18-9
magnesium oxide	1309-48-4

California Prop. 65

WARNING: This product can expose you to chemicals including Quartz (SiO2), which is/are known to the State of California to cause cancer, and

ethylene oxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

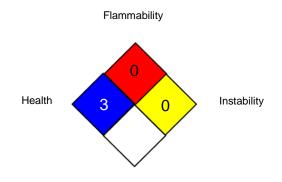
SECTION 16. OTHER INFORMATION

Further information

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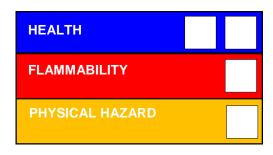
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NFPA 704:



Special hazard

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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

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

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 Admin-



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istration; 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; TECI - 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

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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 guidance 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.

US / EN