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# 1. Identification

Product identifier used on the label

# MasterFlow 928 also MASTERFLOW 928 GROUT

**Recommended use of the chemical and restriction on use** Recommended use\*: for industrial and professional users

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

# Details of the supplier of the safety data sheet

<u>Company:</u> BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

## **Emergency telephone number**

CHEMTREC: 1-800-424-9300 BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: No applicable information available.

# 2. Hazards Identification

## According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

## Classification of the product

Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
STOT RE	1 (by inhalation)	Specific target organ toxicity — repeated exposure

## Label elements

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Signal Word: Danger

Hazard Statement: H318 H315 H335 H372	Causes serious eye damage. Causes skin irritation. May cause respiratory irritation. Causes damage to organs (Lung) through prolonged or repeated exposure (inhalation).
Precautionary Statemen	ts (Prevention):
P280 P260	Wear protective gloves and eye/face protection. Do not breathe dust.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.
Precautionary Statemen	ts (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.
P310	Immediately call a POISON CENTER or doctor/physician.
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.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Precautionary Statemen	ts (Storage):
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
Precautionary Statemen P501	ts (Disposal): Dispose of contents/container to hazardous or special waste collection point.

# Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

# 3. Composition / Information on Ingredients

## According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Weight %	Chemical name
14808-60-7	>= 50.0 - < 75.0%	crystalline silica
65997-15-1	>= 25.0 - < 50.0%	Cement, portland, chemicals
1309-37-1	>= 3.0 - <= 5.0%	Iron oxide
1305-78-8	>= 3.0 - < 5.0%	calcium oxide
7778-18-9	>= 1.0 - <= 3.0%	Calcium sulphate
1317-65-3	>= 1.0 - <= 3.0%	Limestone
1309-48-4	>= 1.0 - <= 3.0%	magnesium oxide

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112945-52-5 >= 1.0 - < 3.0% Silica

# 4. First-Aid Measures

## Description of 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: Obtain medical attention.

## If on skin:

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.

## If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### If swallowed:

Rinse mouth immediately and then drink plenty 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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Hazards: No applicable information available.

## Indication of any immediate medical attention and special treatment needed

Note to physician Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

# 5. Fire-Fighting Measures

## Extinguishing media

Suitable extinguishing media: foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons: water jet

Additional information:

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

## Special hazards arising from the substance or mixture

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Hazards during fire-fighting:

carbon monoxide, carbon dioxide, harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Product is not combustible or explosive.

# Advice for fire-fighters

Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

## 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.

# 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

## **Environmental precautions**

Do not discharge into drains/surface waters/groundwater.

## Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal.

For residues: Rinse with plenty of water. Avoid raising dust.

# 7. Handling and Storage

## Precautions for safe handling

Avoid dust formation. 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. Avoid inhalation of dusts. Avoid skin contact. 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.

Protection against fire and explosion: No special precautions necessary.

## Conditions for safe storage, including any incompatibilities

Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

Suitable materials for containers: Low density polyethylene (LDPE), Paper/Fibreboard

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

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# 8. Exposure Controls/Personal Protection

Components with occupational exposure limits		
calcium oxide	OSHA PEL ACGIH TLV	PEL 5 mg/m3;TWA value 5 mg/m3; TWA value 2 mg/m3;
Iron oxide	OSHA PEL	PEL 10 mg/m3 fumes/smoke ; TWA value 10
	ACGIH TLV	mg/m3_fumes/smoke; TWA value 5 mg/m3_Respirable fraction;
magnesium oxide	OSHA PEL	PEL 15 mg/m3 Total particulate;TWA value 10 mg/m3 Total particulate;
	ACGIH TLV	TWA value 10 mg/m3 Inhalable fraction ;
Limestone	OSHA PEL	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ; TWA value 15 mg/m3 Total dust ; TWA value 5 mg/m3 Respirable fraction ;
Calcium sulphate	OSHA PEL	PEL 15 mg/m3 Total dust ; PEL 5 mg/m3 Respirable fraction ; TWA value 15 mg/m3 Total dust ; TWA value 5 mg/m3 Respirable fraction ;
	ACGIH TLV	TWA value 10 mg/m3 Inhalable fraction;
Gypsum (Ca(SO4).2H2O)	OSHA PEL	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ; TWA value 15 mg/m3 Total dust ; TWA value 5 mg/m3 Respirable fraction
	ACGIH TLV	, TWA value 10 mg/m3 Inhalable fraction;
crystalline silica	OSHA PEL	TWA value 2.4 millions of particles per cubic foot of air Respirable ; The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits. TWA value 0.1 mg/m3 Respirable ; The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits. TWA value 0.3 mg/m3 Total dust ; The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limit.
	ACGIH TLV	TWA value 0.025 mg/m3 Respirable fraction;
Cement, portland, chemicals	OSHA PEL	PEL 15 mg/m3 Total dust ; PEL 5 mg/m3 Respirable fraction ; TWA value 10 mg/m3 Total dust ; TWA value 5 mg/m3 Respirable fraction ; TWA value 50 millions of particles per cubic foot of air ;

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	ACGIH TLV	TWA value 1 mg/m3 Respirable fraction ; The value is for particulate matter containing no asbestos and <1% crystalline silica.
Glass, oxide, chemicals	ACGIH TLV	TWA value 5 mg/m3 Inhalable fraction ; TWA value 1 fibers/cm <sup>3</sup> Fiber ; Respirable fibers: length > 5 micrometers; aspect ration >= 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.
Fumes, silica	OSHA PEL	TWA value 0.8 mg/m3 ; The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits. TWA value 20 millions of particles per cubic foot of air ;
Silica	OSHA PEL	TWA value 20 millions of particles per cubic foot of air ; TWA value 0.8 mg/m3 ; The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

## Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

## Personal protective equipment

## **Respiratory protection:**

Breathing protection if dusts are formed.

## Hand protection:

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

## Eye protection:

Tightly fitting safety goggles (chemical goggles).

## **Body protection:**

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

# General safety and hygiene 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. 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

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regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Contaminated equipment or clothing should be cleaned after each use or disposed of.

# 9. Physical and Chemical Properties

Form: Odour:	powder odourless
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	· · ·
	grey approx. 12 - 13
pH value:	
	(20 °C)
Malting tomporatura	(as aqueous suspension)
Melting temperature:	> 1,000 °C
boiling temperature:	not applicable
Sublimation point:	No applicable information available.
Flash point:	not applicable
Flammability:	not flammable
Lower explosion 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
Line of the start for the start	the intended use.
Upper explosion 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
A	the intended use.
Autoignition:	No applicable information available.
Vapour pressure:	The product has not been tested.
Relative density:	No applicable information available.
Bulk density:	approx. 1,800 - 2,400 kg/m3
Vapour density:	The product is a non-volatile solid.
Thermal decomposition:	No decomposition if stored and handled as
	prescribed/indicated.
Viscosity, dynamic:	not applicable, the product is a solid
Viscosity, kinematic:	No applicable information available.
Solubility in water:	(20 °C)
<b>6.4</b> 1 11 111 141 141	dispersible
Miscibility with water:	(20 °C)
	not soluble
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Evaporation rate:	The product is a non-volatile solid.

# 10. Stability and Reactivity

## Reactivity

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

## **Chemical stability**

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

## Possibility of hazardous reactions

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

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Strong bases are formed on the addition of water.

## Conditions to avoid

Avoid dust formation. Avoid humidity.

## Incompatible materials

strong bases, strong acids

## Hazardous decomposition products

Decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

# 11. Toxicological information

## Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

## **Acute Toxicity/Effects**

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Inhalation Type of value: ATE Value: > 5.0000 mg/l Determined for dust

Dermal Type of value: ATE Value: > 5,000 mg/kg

<u>Assessment other acute effects</u> Assessment of STOT single: Causes temporary irritation of the respiratory tract.

Irritation / corrosion

Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.

Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components. Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-live is unlikely.

<u>Aspiration Hazard</u> No aspiration hazard expected.

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# **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.

#### Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

#### Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

#### Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

#### **Teratogenicity**

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

#### Other Information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

## Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

## **12. Ecological Information**

## Toxicity

Aquatic toxicity Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. The product gives rise to pH shifts. Based on available Data, the classification criteria are not met.

## Persistence and degradability

<u>Assessment biodegradation and elimination (H2O)</u> Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

Experience shows this product to be inert and non-degradable.

Elimination information

not determined

## **Bioaccumulative potential**

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#### Assessment bioaccumulation potential

The product will not be readily bioavailable due to its consistency and insolubility in water.

## Mobility in soil

Assessment transport between environmental compartments The substance will not evaporate into the atmosphere from the water surface. Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

## Additional information

Other ecotoxicological advice:

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.

# 13. Disposal considerations

## Waste disposal of substance:

Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

## Container disposal:

Completely emptied packagings can be given for recycling.

## **14. Transport Information**

Land transport USDOT

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

# **15. Regulatory Information**

## **Federal Regulations**

EPCRA 311/312 (Hazard categories):

Acute; Chronic

CERCLA RQ<br/>5000 LBSCAS Number<br/>67-56-1; 7440-50-Chemical name<br/>Methanol; copper1000 LBS7720-78-7; 7782-iron sulphate; Sulfuric acid, iron(2+) salt (1:1),

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	63-0	heptahydrate
State regulations		
State RTK	CAS Number	Chemical name
PA	14808-60-7	crystalline silica
	1305-78-8	calcium oxide
	65997-15-1	Cement, portland, chemicals
MA	14808-60-7	crystalline silica
	1305-78-8	calcium oxide
	65997-15-1	Cement, portland, chemicals
NJ	1305-78-8	calcium oxide
	65997-15-1	Cement, portland, chemicals
	14808-60-7	crystalline silica

#### CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

#### **NFPA Hazard codes:**

Health : 3 Fire: 1 Reactivity: 0 Special:

## 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2016/05/16

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 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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