

Safety Data Sheet

SC-AwaTec® Mortar

SC-SDB SC-AwaTec-GeoSpray E-Rev 00_noch in Arbeit
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Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product Name

GeoSpray® Geopolymer Mortar

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:

GeoSpray is a geopolymer cement used in the structural rehabilitation of sewer, storm and water piping, manholes and other infrastructure

1.3 Details of the manufacturer:

Milliken Infrastructure Solutions, LLC. 1733 Majestic Drive
Suite 101
Lafayette, CO 80026 USA
(720)-921-8810 (8:00 - 17:00 M-F)
sds@milliken.com

Supplier

Th. Scholten GmbH & Co. KG
Robert-Bosch-Straße 23-25
D-42489 Wülfrath
Tel.: +49 2058 9245 0
E-Mail: scholten@scholten-gmbh.de

Section 2 Hazards identification

2.1 Classification of the substance or mixture:



GHS05 Danger
Eye Dam. 1 H318 Causes serious eye damage



GHS07 Danger
Skin Irrit. 2 H315 Causes skin irritation
STOT SE 3 H335 May cause respiratory irritation



GHS08 health hazard
Carc. 1A Carcinogenicity Category A
STOT RE1 Specific target organ toxicity (repeated exposure) Category 1
STOT RE3 Specific target organ toxicity (single exposure) Category 3

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2.2 Hazard statements

Hazard pictograms Signal word



GHS05

Danger



GHS07

Danger

Hazard warnings

H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H350	May cause cancer (Inhalation)
H372	Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (inhalation)
Carc. 1A	Carcinogenicity Category A
STOT RE1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE3	Specific target organ toxicity (single exposure) Category 3

Safety instructions

P102	Keep out of reach of children
P261, P304, P340, P312	Avoid breathing dust/fume/gas/mist/vapors/spray. If inhaled remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
P305, 351, 338, 310 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 or doctor/physician
P301, P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P314	Get medical advice and attention if you feel unwell
P264	Wash hands and forearms thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear eye protection, protective clothing, protective gloves
P403, P233	Store in a well-ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose of Contents/container according to local, regional, national and international regulations

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2.3 Sonstige Gefahren

Eye contact: Dust may be irritating to the eyes and respiratory tract and may cause a low level inflammatory response in the lungs. Not known to cause permanent injury to eye tissue.

Skin contact: Severely irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Ingestion: Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Section 3 Composition/information on ingredients

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
Crushed stone or gravel	0 to 60 %	Not available.	Not available.	Not available.	
Sand		Not available.	Not available.	Not available.	
Portland Cement			Not available.	Not available.	
Fly Ash		Not available.	Not available.	Not available.	
Crystalline Silica		14808-60-7	Not available.	Not available.	
Proprietary Ingredients		Not available.	Not available.	Not available.	

Section 4 First aid measures

Description of first aid measures:

Inhalation: Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. If breathing is difficult, give oxygen. Get medical attention if any discomfort continues.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes and seek medical attention.

Skin contact: Wash the skin immediately with soap and water. Take off immediately all contaminated clothing. If skin irritation or an allergic skin reaction develops, get medical attention.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Get medical attention if any discomfort continues.

Section 5 Firefighting measures

General fire hazards:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Extinguishing media:

Suitable extinguishing media:

Water fog. Alcohol resistant foam. Dry chemical. Carbon dioxide or dry powder.

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Unsuitable extinguishing media:

No data available.

Special hazards arising from the substance or mixture:

Material reacts with water.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear appropriate personal protective equipment. The risk of inhalation of dust must be minimized as much as possible.

Environmental precautions:

Do not release into the environment.

Methods and material for containment and cleaning up:

Dam and absorb spillages with sand, earth or other non-combustible material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container. All waste materials should be packaged, labeled and transported in accordance with all national, state/provincial, and local requirements.

Reference to other sections:

No data available.

Section 7 Handling and storage

Precautions for safe handling:

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash promptly with soap and water if skin becomes contaminated. Practice good housekeeping. Avoid conditions which create dust.

Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

Specific end use(s):

No data available.

Section 8 Exposure controls/personal protection

Exposure controls**Appropriate engineering controls:**

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m³.

Individual protection measures, such as personal protective equipment:**General information:**

No data available.

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Eye/face protection:

Wear necessary protective equipment. Avoid contact with eyes and prolonged skin contact. Chemical goggles are recommended.

Skin protection & Hand protection:

Wear suitable protective clothing as protection against splashing or contamination. Wash promptly with soap and water if skin becomes contaminated. Protective gloves should be used if there is a risk of direct contact or splash. Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other:

Wear rubber boots. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection:

Wear dust masks in dusty areas. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental Controls:

No data available.

Section 9 Physical and chemical properties

Physical state:	powder
Colour:	grey
Odor:	No data available.
pH:	10-13 (Aqueous suspensions)

Section 10 Stability and reactivity

Reactivity:

Material is stable under normal conditions.

Chemical stability:

No data available.

Possibility of hazardous reactions:

The product reacts with water and will generate heat.

Conditions to avoid:

No data available.

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Incompatible materials:

No data available.

Hazardous decomposition products:

No data available.

Section 11 Toxicological information

Information on likely routes of exposure**Inhalation:**

No data available.

Ingestion:

No data available.

Skin contact:

No data available.

Eye contact:

No data available.

Information on toxicological effects:**Acute Toxicity****Oral:**

No data available.

Dermal:

No data available.

Inhalation:

No data available.

Repeated dose toxicity:

No data available.

Skin corrosion/irritation:

No data available.

Serious eye damage/eye irritation:

No data available.

Respiratory or skin sensitization:

No data available.

Section 12 Ecological information

Toxicity**Acute toxicity****Fish:**

No data available.

Aquatic invertebrates:

No data available.

Chronic Toxicity**Fish:**

No data available.

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Aquatic invertebrates:

No data available.

Toxicity to Aquatic Plants:

No data available.

Persistence and degradability:**Biodegradation:**

No data available.

BOD/COD ratio:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Results of PBT and vPvB assessment:

No data available.

Section 13 Disposal considerations

Waste treatment methods**General information:**

No data available.

Disposal methods

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated packaging:

No data available.

European Waste Codes:

None

Section 14 Transport information

Land (ADR/RID)

Not regulated.

Sea (IMDG)

Not regulated.

Air (ICAO/IATA): IATA Dangerous Goods Regulation (DGR) 57th Edition 2016

Not regulated.

Environmental hazards:

Not regulated.

Special precautions for user:

No special precautions.



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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

Section 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Ready mix concrete/cement/geopolymer is considered a hazardous chemical under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200 and should be part of any hazard communication program.

Ready mix concrete/cement/geopolymer qualifies as a hazardous substance with delayed health effects under SARA (Title III), Sections 311 and 312.

Some substances in Ready Mix Concrete/cement/geopolymer are on the TSCA inventory list.

Ready mix concrete/cement/geopolymer is a hazardous substance under the Federal Hazardous Substance Act (USA)

Under California Proposition 65, this product contains chemicals (trace metals) known to the State of California to cause cancer, birth defects, or other reproductive harm. California law requires the manufacturer to give the above warning in the absence of definitive testing to prove the defined risks do not exist.

Portland cement is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Chemical safety assessment:

No data available.

Section 16 Other information

Revision Information:

Not relevant.

Key literature references and sources for data:

No data available.

Wording of the R-phrases and H-statements in section 2 and 3.

Training information:

No data available.