

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

EZ Anode Grout – Zinc Activating Cement – Component A

Company Identification:



10150 Old Columbia Road , Columbia MD 21042

For information, call:

Tel: +1 410 859 7000

Emergency Number:

Tel: +1 410 859 7000

E-mail:

info@structuraltec.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxic (Category 4), H302

Skin Sens. (Category 1), H317

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram: Exclamation mark

Signal word: Danger

Hazard inducing

Component: polyethyleneimine

Hazard statement(s)

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P403 + P235 Store in a well-ventilated place. Keep cool.



2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Polyethyleneimine CAS 9002-98-6	Acute Tox. 4 H302 Skin Sens. 1 H317 Aqu. Tox. Chron. 2 H411	< 2%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Eyes:	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 min or until particles are removed. If irritation persists get medical attention. Do not apply neutralizing agents.
Skin:	Wash affected areas thoroughly with mild soap and water. Immediately take off all contaminated clothing. Wash clothing separately before reuse. Get medical attention if irritation develops or persists.
Ingestion	Digestion of this product may cause nausea, vomiting and diarrhea.
Inhalation	If difficulties occur after aerosol has been inhaled, remove to fresh air and seek medical advice.
Notes to Physician:	Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Hazardous combustion products	Suitable extinguishing media: use water spray, dry extinguishing media, carbon dioxide
Extinguishing Media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. use water spray, dry extinguishing media, carbon dioxide
Inappropriate Extinguishing Media	Not applicable
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. Evacuate area and fight fire from a safe distance.
Autoignition Temperature:	Not applicable
Flash Point:	Not available
Explosion Limits, Lower:	Not available
Explosion Limits, Upper:	Not available

6. ACCIDENTAL RELEASE MEASURES:

General Information:	Prevent penetration into sewers, cellars, pits, surface or ground water.
Environmental Protection Measures	Absorb spill with inert material, (e.g., dry sand or earth). Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal state, and local regulations. See also section 13 Disposal considerations.
Spills/Leaks:	In case of large spills, follow all facility emergency response procedures.

7. HANDLIN and STORAGE

Handling:	Avoid prolonged or repeated skin contact with this material. Avoid contact with skin and clothing. Do not reuse the empty container. Use gloves.
Protection against fire and explosion:	No special precaution necessary.
Storage:	Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight. Keep container tightly closed.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Respirators:	not required
Eyes/Skin:	Use personal protective equipment to minimize exposure to skin and eye.

Clothing:

Wear appropriate protective clothing to prevent skin

	exposure.
Sanitation	Handle in accordance with good industrial hygiene and safety practice. Wash hands before lunch breaks and at the end of work. Keep away from foodstuffs, beverages and food. The use of protective skin ointments is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Fluid
Appearance:	white
Odour:	Slight ammonia odour, characteristic
pH-value (23°C):	10,0 – 10,9
Water Vapour Pressure:	23 hPa (20°C)
Viscosity:	Approx. 15000 mPas at 20°C.
Boiling Point:	> 100° C.
Freezing/Melting Point:	Not available.
Decomposition Temperature:	Not available.
Solubility:	Fully miscible with water.
Specific Gravity/Density:	Approx. 1.45
Solvent content	0 %
Solids content	65,0 %
Oxidizing properties	Not applicable

10. STABILITY AND REACTIVITY:

Chemical Stability:	Stable, No decomposition if used according to specifications.
Incompatibility with Other Materials:	Not available
Hazardous composition De Products:	None under normal use

11. TOXICOLOGICAL INFORMATION:

Toxicity:	Polyethyleneimine: LD50 (oral, rat): > 500 - < 2000 mg/kg
Local Effects:	Primary skin irritation/rabbit: non-irritant Primary irritation of the mucous membranes/rabbit: Risk of serious damage to eyes.

Sensitization: Hazard inducing Component: polyethyleneimine
May produce an allergic skin reaction.

12. ECOLOGICAL INFORMATION

Toxicity to fish	Polyethyleneimine: Leuciscus idus(LC50 (96h): 10 – 100 mg/l
Micro organisms/Effect on activated sludge	Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
Assessment of aquatic toxicity	The product has not been tested. The statement has been derived from products of a similar structure and composition.

13. DISPOSAL CONSIDERATIONS

Unused Product::	Dispose of in a manner consistent with federal, state, and local regulations.
Uncleaned Containers	Dispose of in a manner consistent with federal, state, and local regulations. Empty containers should be taken for local recycling, recovery or waste disposal.
Recommended cleaning agent:	Water, if necessary with cleaning agent.

14. TRANSPORT INFORMATION

General	Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID
IATA	
Proper shipping name	Not applicable
Packaging exceptions	None
Identification number (UN)	None
Packaging group	None

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
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16. ADDITIONAL INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour

H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long-lasting effects

Use: coatings on concrete

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

EZ Anode Grout – Zinc Activating Cement – Component B

Company Identification:

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TECHNOLOGIES

10150 Old Columbia Road , Columbia MD 21042

For information, call:

Tel: +1 410 859 7000

Emergency Number:

Tel: +1 410 859 7000

E-mail:

info@structuraltec.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Metal Corrosive (Category 1), H290
Skin Damaging (Category 1A), H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram: Exclamation mark, Corrosive
Signal word: Danger, Warning
Hazard inducing
Component: Silicic acid, potassium salt, solution



Hazard statement(s)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P262 Do not get in eyes, on skin, or on clothing.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove

contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P406 Store in corrosive resistant container with a resistant inner liner.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Potassium Silicate, EINECS 215-199-1, CAS 1312-76-1	Met. Corr. 1 H290 Skin Corr. 1B H314	> 30%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Eyes:	Rinse opened eye for several minutes under running water.
Skin:	Immediately rinse with water. Get medical attention if irritation develops or persists.
Ingestion	Rinse out mouth and then drink plenty of water. Call a doctor immediately. Ingestion of this product may cause nausea, vomiting and diarrhoea.
Inhalation	If difficulties occur after aerosol has been inhaled, remove to fresh air and seek medical advice.
Notes to Physician:	Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Hazardous combustion products	-
Extinguishing Media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. use water spray, dry extinguishing media, carbon dioxide
Inappropriate Extinguishing Media	Not applicable
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. Evacuate area and fight fire from a safe distance.
Autoignition Temperature:	Not applicable
Flash Point:	Not available
Explosion Limits, Lower:	Not available

6. ACCIDENTAL RELEASE MEASURES:

General Information:	Prevent penetration into sewers, cellars, pits, surface or ground water.
Environmental Protection Measures	Absorb spill with inert material, (e.g., dry sand or earth). Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal state, and local regulations. See also section 13 Disposal considerations.
Spills/Leaks:	In case of large spills, follow all facility emergency response procedures.

7. HANDLIN and STORAGE

Handling:	Avoid prolonged or repeated skin contact with this material. Avoid contact with skin and clothing. Do not reuse the empty container. Use gloves.
Protection against fire & and explosion	No special precaution necessary

Storage: Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight. Do not store together with acids.
Provide alkali-resistant floor.
Do not use light alloy receptacles.
Suitable material for receptacles and pipes: steel or stainless steel.
Unsuitable material for receptacle: aluminum.
Unsuitable material for receptacle: glass or ceramic.
Unsuitable material for receptacle:
zinc. Keep container tightly closed.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Respirators: not required

Eyes/Skin: Use personal protective equipment to minimize exposure to skin and eye.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Sanitation Handle in accordance with good industrial hygiene and safety practice
Wash hands before lunch breaks and at the end of work.
Keep away from foodstuffs, beverages and food.
The use of protective skin ointments is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Fluid, Viscid Liquid

Appearance: Colorless, clear

Odour: characteristic

pH-value (23°C): 14,0

Water Vapour Pressure: < 110 kPa (20°C)

Viscosity: Approx. 60 mPas at 20°C.

Boiling Point: > 100° C.

Freezing/Melting Point: Not available.

Decomposition Temperature: Not available.

Solubility: Fully miscible with water.

Specific Gravity/Density: Approx. 1.49 g/cm³

Solvent content -

Solids content -

Oxidizing properties Not applicable

10. STABILITY AND REACTIVITY:

Chemical Stability:	Stable, No decomposition if used according to specifications
Incompatibilities with Other Materials:	Not available
Hazardous Decomposition Products:	None under normal use

11. TOXICOLOGICAL INFORMATION:

Toxicity:	Potassium silicate (>30%) LD50 (oral): > 2000 mg/kg LD50 (dermal): > 5000 mg/kg
Local Effects:	Caustic effect on skin and mucous membranes. Caustic effect on eyes.
Sensitization:	Not applicable

12. ECOLOGICAL INFORMATION

Toxicity to fish	Potassium silicate (>30%) EC 50: > 100 mg/l (Algae toxicity) > 100 mg/l (Daphniae toxicity) LC 50: > 100 mg/l (fish toxicity) Remark: No toxicity after neutralization.
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Micro organisms/Effect on activated sludge	Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
Assessment of aquatic toxicity	The product has not been tested. The statement has been derived from products of a similar structure and composition.

13. DISPOSAL CONSIDERATIONS

Unused Product::	Dispose of in a manner consistent with federal, state, and local regulations. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Uncleaned Containers	Dispose of in a manner consistent with federal, state, and local regulations. Empty containers should be taken for local recycling, recovery or waste disposal.
Recommended cleaning agent:	Water, if necessary with cleaning agent.

14. TRANSPORT INFORMATION

ADR/RID class: 8

Danger code (Kemler): 80

UN-Number: 3266

Packaging group: II

Hazard label 8

Description of goods: 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(Silicic acid, potassium salt, solution)

IMDG class: 8

UN-Number: 3266

Packaging group: II

Hazard label 8

EMS Number: F-A,S-B

Marine pollutant: No

Description of goods: 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(Silicic acid, potassium salt, solution)

IATA Class: 8

UN/ID Number: 3266

Packaging group: II

Hazard Label 8

Description of goods: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Silicic acid, potassium salt, solution)

Proper shipping name	TAS-EZA Component B-MK
Packaging exceptions	None
Identification number (UN)	3266
Packaging group	II

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. ADDITIONAL INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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