

SAFETY DATA SHEET



Date issued : 05/23/2016
 SDS number : SCC-029P
 Date revised : 08/26/2025
 Revision number : 8

29 Low Expansion Cement, Powder

1. Identification

Product code: 29P
Product identifier: 29 Low Expansion Cement, Powder
Product description: Low Expansion Cement, Powder
Product formulation name: 29 Low Expansion Cement, Powder
Chemical family: Zircon Cement Filler

Manufacturer / Supplier

Sauereisen
 160 Gamma Drive
 Pittsburgh, PA 15238
Emergency contact: John Kozak
Emergency Phone: (800)444-8235
Alternate Contact: Rob Bowman
Customer Service: 412 963-0303
E-Mail: jakozak@sauereisen.com

Emergency telephone number (24 hour)

Poison Control Center (Medical):1-800-222-1222
 CHEMTREC (US Transportation): 1-800-424-9300
 CHEMTREC (Canada Transportation):1-703-527-3887

2. Hazard identification

Classification of the substance or mixture**Health hazards:**

Eye Irritation, Category 2B
 Skin Irritation, Category 2
 Target Organ Toxicity (Repeated exposure), Category 2
 Acute Toxicity (Inhalation), Category 5

Environmental hazards:

Acute Hazards to the Aquatic Environment, Category 3

Label elements

Exclamation
 mark



Health
 hazard

Signal word: WARNING

Hazard statement(s)

H315: Causes skin irritation.
 H320: Causes eye irritation.
 H333: May be harmful if inhaled.
 H402: Harmful to aquatic life.
 H373: May cause damage to lungs or kidneys through prolonged or repeated exposure via inhalation.

Precautionary statement(s)**Prevention:**

P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P264: Wash ... thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P273: Avoid release to the environment.
 P271: Use only outdoors or in a well-ventilated area.

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.
 P302+P352: IF ON SKIN: Wash with plenty of water/...
 P314: Get medical advice/attention if you feel unwell.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P322: Specific measures (see ... on this label).
 P362: Take off contaminated clothing.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312: Call a POISON CENTER/doctor/...if you feel unwell.

Disposal:

P501: Dispose of contents/container in accordance with local/national regulations.

Potential health effects

Eye: Contact may cause eye irritation.

Skin: Itching or burning will occur with repeated or prolonged contact. May exacerbate existing skin conditions.

Inhalation: Dust or vapor irritating to eyes and respiratory tract.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
zircon (zr(sio4))	< 80	14940-68-2
Sodium Fluorosilicate	< 30	16893-85-9

4. First-aid measures

Eye: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

Skin: Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical attention if erythema develops.

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention immediately. Never give anything by mouth to an unconscious person. Advise physician of possible fluoride exposure.

Inhalation: If difficulty breathing, move to fresh air once. Apply artificial respiration if breathing has stopped. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Eye: Causes pain, redness and tearing.

Skin: Contact causes skin irritation.

Inhalation: Headache, nausea, and irritation to nose and throat. Prolonged or repeated exposure may cause asthma.

Indication of immediate medical attention and special treatment needed, if necessary: Further treatment may be necessary. Contact local poison control center. Possible Fluoride exposure.

5. Fire-fighting measures

Flammable class: NA = Not Applicable

Flame propagation or burning rate of solids: None

General hazard: NA = Not Applicable

Suitable extinguishing media: NA = Not Applicable

Hazardous combustion products: NA = Not Applicable

Explosion hazards: Not sensitive to mechanical impact or static discharge

Fire fighting procedures: NA = Not Applicable

Fire fighting equipment: NA = Not Applicable

Fire explosion: NA = Not Applicable

Sensitivity to static discharge: None

Sensitivity to mechanical impact: None

Hazardous decomposition products: NA = Not Applicable

6. Accidental release measures

Small spill: Clean-Up Procedure: Spill area may become slippery; use care to avoid falls. Flush spill area with plenty of water.

Large spill: For spill greater than 100 gallons; isolate, dike and store discharged material, if possible. Collect with dry sand, clay or other absorbent. Flushed cleaned areas with water. Observe Environmental regulations. Wear PPE - gloves, rubber boots, and safety glasses.

Special protective equipment: Wear gloves, rubber boots, and safety glasses.

7. Handling and storage

General procedures: Avoid contact with eyes, skin, and clothing.

For industrial use only!

Do not take internally.

May cause irritation.

Wash thoroughly after handling.

Precautions for safe handling: Wear protective safety glasses, gloves and protective clothing.

Conditions for safe storage: Store in a cool, dry place.

Keep container closed when not in use.

Keep away from food and drinking water.

Always mix well before using.

8. Exposure controls/personal protection

Exposure controls

Chemical name	Control parameters		
	Occupational exposure limit values		
	Type	ppm	mg/m ³
zircon (zr(sio4))	OSHA PEL	STEL	15
	ACGIH TLV	TWA	10
Sodium Fluorosilicate	OSHA PEL	STEL	2.5
	ACGIH TLV	STEL	2.5

Individual protection measures, such as personal protective equipment

Eye / face protection: Safety glasses with side shields, chemical resistant goggles, or face shield. Contact lenses should not be worn.

Skin protection - hand protection: Permeation resistant gloves (butyl rubber, nitrile rubber or poly vinyl alcohol). Please note that PVA degrades in water. Cover exposed skin as possible with appropriate clothing. If skin creams are used, keep area covered by cream to a minimum.

Respiratory protection: No special requirements under ordinary conditions of use and with adequate ventilation. Use NIOSH approved mist respirator where spray occurs.

9. Physical and chemical properties

Physical state: Solid

Appearance: Powder

Color: White

Odor: No appreciable odor.

Odor threshold: Not Available

pH: 10.5 to 11

Melting point: Not Available

Freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash point: NA = Not Applicable

Flammability: NA = Not Applicable

Lower explosion limit / flammability limit: 0

Upper explosion limit / flammability limit: 0

Vapor pressure: Vapor is water

Relative vapor density: Same as water vapor.

Density: ~ 2.26

Relative density: 2.26

Solubility: Slight.

Partition coefficient n-octanol/water (logarithmic value): Not Available

Auto-ignition temperature: NA = Not Applicable

Decomposition temperature: Not Available

Viscosity: Not Available

Particle characteristics: Not Available

Percent volatiles: NA = Not Applicable

VOC content: None

10. Stability and reactivity

Reactivity: Yes

Dangerous polymerization: No

Chemical stability: Stable under normal conditions of use and storage.

Incompatible materials: Avoid contact with acids, and acid vapors.

11. Toxicological information

Acute toxicity

Acute dermal toxicity LD₅₀: No data available.

Acute oral toxicity LD₅₀: No data available.

Acute inhalation toxicity LC₅₀: No data available.

Serious eye damage / irritation: Eye, Skin and Inhalation Irritant.

Germ cell mutagenicity: Not Available

Reproductive toxicity: Not Available

Specific Target Organ Toxicity - repeated exposure: Causes damage to lungs or kidneys through prolonged exposure via inhalation.

12. Ecological information

Aquatic toxicity, both acute and chronic: Sodium Silicate has low toxicity. TLM 96 hr in mosquitofish is 2,320 mg/L. High pH (alkalinity) of undiluted material is harmful to aquatic life.

96-hour LC₅₀: ≤ 5000

13. Disposal considerations

Disposal methods: Comply with federal, state and local regulations. If approved, flush with water to chemical sewer. For large quantities, neutralize with dilute acid and landfill solids or flush neutral liquid to sewer with plenty of water.

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: Not Regulated

Technical name: NA = Not Applicable

Transport hazard class(es): Not Regulated

ADR / RID - road / rail

UN proper shipping name: Not Regulated

ICAO / IATA - air

UN proper shipping name: Not Regulated

IMO / IMDG - International

UN proper shipping name: Not Regulated

Canadian Transport of Dangerous Goods Regulations (TDG)

UN proper shipping name: Not Regulated

15. Regulatory information**UNITED STATES****Dot label symbol and hazard classification**

Toxic

R36/37/38: Irritating to eyes, respiratory system and skin.

R48/20: Harmful : danger of serious damage to health by prolonged exposure through inhalation.

S22: Do not breathe dust.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

SARA Section 311/312 Hazard Categories**311/312 Health hazards:** Chronic. Irritant.**313 reportable ingredients:** There are no listed chemicals above detection limits in this compound.**Title III notes:** None above detection limits.**CERCLA Hazardous Substances and Reportable Quantities (RQ)****CERCLA regulatory:** None**TSCA (The Toxic Substances Control Act)**

Chemical name	CAS No.
zircon (zr(sio4))	14940-68-2
Sodium Fluorosilicate	16893-85-9

TSCA Status: Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.**CANADA****WHMIS Hazard Symbol and Classification**

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WHMIS Classification: Class D, Division 2, Subdivision A: Materials cause other toxic effects, very toxic material.**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):** Components included on inventory**16. Other information****Prepared by:** John A Kozak **Date revised:** 08/26/2025**Revision summary:** This SDS replaces the 03/24/2025 SDS. Revised: **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s). **Section 9:** Initial boiling point and boiling range, Coeff. Oil/water, Density, Freezing point, Melting point, Particle characteristics, Physical state, Solubility, Viscosity, VOC content, Decomposition temperature.

HMIS rating

Health	*	1
Flammability		0
Physical hazard		0
Personal protection		E