

SAFETY DATA SHEET



13 Zircon Potting Cement

Date Issued : 05/16/2016

SDS No : SCC-013

Date Revised : 02/04/2020

Revision No : 2

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 13 Zircon Potting Cement
PRODUCT DESCRIPTION: Zircon Potting Cement
PRODUCT CODE: 13
PRODUCT FORMULATION NAME: 13 Zircon Potting Cement
CHEMICAL FAMILY: Magnesium Phosphate Cement

MANUFACTURER

Sauereisen
 160 Gamma Drive
 Pittsburgh, PA 15238

Emergency Contact: John Kozak**Emergency Phone:** (800)444-8235**Alternate Contact:** Don Schubert**Customer Service:** 412 963-0303**E-Mail:** jakozak@sauereisen.com**24 HR. EMERGENCY TELEPHONE NUMBERS**

Poison Control Center (Medical):1-800-222-1222

CHEMTREC (US Transportation): 1-800-424-9300

CHEMTREC (Canada Transportation):1-703-527-3887

2. HAZARDS IDENTIFICATION

GHS LABEL**SIGNAL WORD:** DANGER**PRECAUTIONARY STATEMENTS****Prevention:**

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash ... thoroughly after handling.

Response:

- P308+P313: IF exposed or concerned: Get medical advice/ attention.
- P314: Get medical advice/attention if you feel unwell.
- 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.
- P302+P352: IF ON SKIN: Wash with plenty of water/...
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P322: Specific measures (see ... on this label).
- P362: Take off contaminated clothing.

Storage:

- P405: Store locked up.

Disposal:

- P501: Dispose of contents/container to ...

POTENTIAL HEALTH EFFECTS**EYES:** Contact may cause eye irritation.**SKIN:** Moderate irritation and dryness. Prolonged or repeated exposure may result in sensitization.**INHALATION:** Dust or vapor irritating to eyes and respiratory tract.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Phosphoric Acid, Magnesium Salt	< 11 - 18	7757-86-0
zircon (zr(sio4))	< 75	14940-68-2
Magnesium Oxide	< 15	1309-48-4
Boric Acid	< 2	10043-35-3

4. FIRST AID MEASURES

EYES: Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

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.

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

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: NA = Not Applicable

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical, and foam.

EXPLOSION HAZARDS: Not sensitive to mechanical impact or static discharge

FIRE FIGHTING PROCEDURES: Normal precautions are satisfactory.

FIRE EXPLOSION: NA = Not Applicable

SENSITIVE TO STATIC DISCHARGE: None

SENSITIVITY TO IMPACT: None

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Use dustless methods and place in a closeable container for disposal, or flush with water. Observe environmental regulations.

GENERAL PROCEDURES: Sweep, scoop or vacuum the discharged material. Respiratory protection should be worn at all times and skin contact should be avoided. Observe environmental regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing.

Avoid breathing dust.

For industrial use only!

Harmful if inhaled.

Do not take internally.

May cause irritation.

Wear chemical splash goggles, gloves, and protective clothing.

Use adequate ventilation and employ respiratory protection where dust or fumes may be generated.

Wash thoroughly after handling.

HANDLING: Do not breathe dust. Keep airborne dust concentrations below permissible exposure limit (PEL). Do not rely on sight to determine if dust is in the air. Respirable crystalline silica dust may be in the air without a visible dust cloud. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean and fit tested respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing that has become dusty.

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 GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)			
Chemical Name	EXPOSURE LIMITS		
	Type	ppm	mg/m ³
zircon (zr(sio4))	OSHA PEL	STEL	15
	ACGIH TLV	TWA	10
Magnesium Oxide	OSHA PEL	TWA	15
	ACGIH TLV	TWA	10 l

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses with side shields, chemical resistant goggles, or face shield. Contact lenses should not be worn.

SKIN: Suitable protective gloves (neoprene, butyl rubber, or viton). Clothing should be clean, long-sleeved workclothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

RESPIRATORY: A suitable respirator complying with the most current NIOSH/ANSI/EN requirements should be used. In the U.S. use dust respirators in compliance with OSHA Standard 1910.134, and in the E.U. use dust respirators in compliance with EN149:2001 FFP2 or FFP3 and rated for at least 10X WEL. . For emergency, a self-contained positive pressure, breathing apparatus or full face respirator is recommended. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA regulation 29 CFR Part 1910.

OTHER USE PRECAUTIONS: Provide adequate general and local exhaust ventilation to meet PEL requirements. Provide workers with dust respirators for use in emergency or non-routine situations where dust levels may exceed PEL. A NIOSH approved half face-piece respirator can be used up to 10x PEL. For up to 100x PEL, use a full face-piece respirator with replaceable dust filters. Higher exposures need an approved air-supplied regulator.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: NA = Not Applicable

ODOR THRESHOLD: Not Available

APPEARANCE: Granular powder

COLOR: White to tan.

pH: NA = Not Applicable

PERCENT VOLATILE: NA = Not Applicable

FLAMMABLE LIMITS: 0 to 0

VAPOR PRESSURE: NA = Not Applicable

VAPOR DENSITY: NA = Not Applicable

MELTING POINT: NA = Not Applicable

EVAPORATION RATE: NA = Not Applicable

SPECIFIC GRAVITY: 2 to 2.2

10. STABILITY AND REACTIVITY

REACTIVITY: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal conditions of use and storage.

CONDITIONS TO AVOID: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

INCOMPATIBLE MATERIALS: None

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

ORAL LD₅₀: No data is available on the product itself.

Notes: Components:

Boric Acid: LD50 (rat): 3500 - 4100 mg/kg

SERIOUS EYE DAMAGE/IRRITATION: Eye, Skin and Inhalation Irritant.

CARCINOGENICITY

NTP: Not yet Known

REPRODUCTIVE TOXICITY: This product contains Boric acid which may damage fertility or harm the unborn child

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE): No data is available on the product itself. Below is for Boric Acid component.

48-HOUR EC₅₀: 133 mg/L Daphnia Magna

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: The packaging and material may be disposed of in landfills; however, material should be covered or wetted to minimize generation of airborne dust.

PRODUCT DISPOSAL: Sweep up excess; flush area with large quantities of water. Material may be disposed of in approved landfill according to official regulations.

EMPTY CONTAINER: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME: Not Regulated

TECHNICAL NAME: NA = Not Applicable

PRIMARY HAZARD CLASS/DIVISION: NA = Not Applicable

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Not Regulated

AIR (ICAO/IATA)

SHIPPING NAME: Not Regulated

VESSEL (IMO/IMDG)

SHIPPING NAME: Not Regulated

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Not Regulated

15. REGULATORY INFORMATION**UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

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.

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.

S7/8: Keep container tightly closed and dry.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Irritant.

313 REPORTABLE INGREDIENTS: There are no listed chemicals above detection limits in this compound.

TITLE III NOTES: None above detection limits.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Phosphoric Acid, Magnesium Salt	7757-86-0
zircon (zr(sio4))	14940-68-2
Magnesium Oxide	1309-48-4
Boric Acid	10043-35-3

TSCA STATUS: Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CALIFORNIA PROPOSITION 65: Known to the State of California to cause cancer or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

CANADA

WHMIS HAZARD SYMBOL AND 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.

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.

S7/8: Keep container tightly closed and dry.

DOMESTIC SUBSTANCE LIST (INVENTORY): Components included on inventory

16. OTHER INFORMATION

PREPARED BY: John A Kozak **Date Revised:** 02/04/2020

REVISION SUMMARY: This SDS replaces the 02/17/2017 SDS. Revised: **Section 2:** POTENTIAL HEALTH EFFECTS (SKIN). **Section 3:** Wt.%. **Section 4:** CHRONIC EFFECTS. **Section 11:** ACUTE, GENERAL COMMENTS, IARC, NTP, OSHA, STOT-SINGLE EXPOSURE. **Section 12:** ECOTOXICOLOGICAL INFORMATION, ENVIRONMENTAL DATA. **Section 13:** RCRA/EPA WASTE INFORMATION. **Section 15:** CERCLA REGULATORY, RCRA STATUS, 311/312 HAZARD CATEGORIES, STATE REGULATIONS, WHMIS CLASS.

HMIS RATING

HEALTH	*	1
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		E