

ISSUE DATE 8/20/2019  
REVIEWED ON 8/20/2019

# SAFETY DATA SHEET

OSHA HAZCOM STANDARD 29 CFR 1910.1200(G) AND GHS REV 03



## POZZ PLUS

FOR THE PRODUCTION OF HIGH PERFORMANCE, UHPC, & GFRC

**MULTI COMPONENT POWDERED ADMIXTURE  
SIMPLIFIES PRODUCTION OF GFRC**

**INCREASES DENSITY / COMPRESSIVE STRENGTH  
INCREASES FLEXURAL STRENGTH UP TO 200%**

**40 GROSSETT DRIVE, SUITE 200, KIRKWOOD, NY 13795  
1 (800) 475-1975 • (607) 775-1948 • WWW.TRINIC.US • @TRINICLLC**   

## **1. IDENTIFICATION**

### **PRODUCT IDENTIFIER**

- **Trade Name:** Pozz Plus
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Concrete Admixture Powder

### **DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**

#### **Manufacturer/Supplier:**

Trinic LLC.  
40 Grosset Drive, Suite 200  
Kirkwood, NY 13795  
www.TRINIC.us  
(800) 475-1975 - toll free (US only)

#### **Emergency telephone number:**

Chemtrec (US): (800) 424-9300  
Chemtrec (outside US): (703) 527-3887 (collect calls accepted)

## **2. HAZARD(S) IDENTIFICATION**

### **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**



STOT SE 3

H335 May cause respiratory irritation.

### **LABEL ELEMENTS**

- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard-determining components of labeling:**  
Silica-Amorphous Silica fume  
Aluminium Oxide
- **Hazard statements:**  
H335 - May cause respiratory irritation.

## 2. HAZARD(S) IDENTIFICATION (CONT.)

- **Precautionary statements:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a poison center/doctor if you feel unwell.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

### UNKNOWN ACUTE TOXICITY

This value refers to knowledge of known, established toxicological or ecotoxicological values. 64.8% of the mixture consists of component(s) of unknown toxicity.

### CLASSIFICATION SYSTEM

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

- **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 0

Fire = 0

Physical Hazard = 0

### HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC)

None known

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**CHEMICAL CHARACTERIZATION**

Mixtures

**DESCRIPTION**

Non-regulated material

DANGEROUS COMPONENTS			
CAS: 69012-64-2	Silica-Amorphous Silica fume	⚠ STOT SE 3, H335	40 - 60%
CAS: 1314-23-4 RTECS: ZH8800000	Zirconium oxide		2 - 12%
CAS: 1344-28-1 RTECS: BD 1200000	Aluminium Oxide	⚠ STOT SE 3, H335	2 - 12%

**ADDITIONAL INFORMATION**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

**4. FIRST-AID MEASURES**

**DESCRIPTION OF FIRST AID MEASURES**

- **General information:** Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
- **After inhalation:** Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in the side position for transportation.
- **After skin contact:** If skin irritation occurs, consult a doctor.
- **After eye contact:** If eye irritation occurs, consult a doctor. Rinse opened eye for several minutes under running water.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

No further relevant information available.

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No further relevant information available.

## **5. FIRE-FIGHTING MEASURES**

### **EXTINGUISHING MEDIA**

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.

### **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

No further relevant information available.

### **ADVICE FOR FIREFIGHTERS**

- **Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

## **6. ACCIDENTAL RELEASE MEASURES**

### **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Not required.

### **ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter sewers / surface or ground water.

### **METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

### **REFERENCE TO OTHER SECTIONS**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **PROTECTIVE ACTION CRITERIA FOR CHEMICALS**

- **PAC-1:**

69012-64-2	Silica-Amorphous Silica fume	45 mg/m <sup>3</sup>
1314-23-4	Zirconium oxide	14 mg/m <sup>3</sup>
1344-28-1	Aluminium Oxide	15 mg/m <sup>3</sup>
112-34-5	Diethylene Glycol Monobutyl Ether	30 ppm
1310-73-2	Sodium Hydroxide	0.5 mg/m <sup>3</sup>
9004-74-4	Polyethylene Glycol Monomethyl Ether	66 mg/m <sup>3</sup>

**6. ACCIDENTAL RELEASE MEASURES (CONT.)**• **PAC-2:**

69012-64-2	Silica-Amorphous Silica fume	500 mg/m <sup>3</sup>
1314-23-4	Zirconium oxide	110 mg/m <sup>3</sup>
1344-28-1	Aluminium Oxide	170 mg/m <sup>3</sup>
112-34-5	Diethylene Glycol Monobutyl Ether	33 ppm
1310-73-2	Sodium Hydroxide	5 mg/m <sup>3</sup>
9004-74-4	Polyethylene Glycol Monomethyl Ether	730 mg/m <sup>3</sup>

• **PAC-3:**

69012-64-2	Silica-Amorphous Silica fume	3,000 mg/m <sup>3</sup>
1314-23-4	Zirconium oxide	680 mg/m <sup>3</sup>
1344-28-1	Aluminium Oxide	990 mg/m <sup>3</sup>
112-34-5	Diethylene Glycol Monobutyl Ether	200 ppm
1310-73-2	Sodium Hydroxide	50 mg/m <sup>3</sup>
9004-74-4	Polyethylene Glycol Monomethyl Ether	4,400 mg/m <sup>3</sup>

**7. HANDLING AND STORAGE****PRECAUTIONS FOR SAFE HANDLING**

- Avoid creating and breathing dust/fume/gas/mist/vapors/spray.
- Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

**SPECIFIC END USE(S)**

No further relevant information available.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:**

No further data; see section 7.

**CONTROL PARAMETERS**

<b>COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMITS</b>	
<b>69012-64-2 SILICA-AMORPHOUS SILICA FUME</b>	
TLV	TLV withdrawn
<b>1314-23-4 ZIRCONIUM OXIDE</b>	
PEL	Long-term value: 5 mg/m <sup>3</sup> as Zr
REL	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
TLV	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
<b>1344-28-1 ALUMINIUM OXIDE</b>	
PEL	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction

**ADDITIONAL INFORMATION**

The lists that were valid during the creation of this SDS were used as basis.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT.)**

### EXPOSURE CONTROLS

#### GENERAL PROTECTIVE AND HYGIENIC MEASURES

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing and wash before reuse.
- Wash hands before breaks and at the end of work.

#### PERSONAL PROTECTIVE EQUIPMENT

- **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

- **Protection of hands:** Not required  
**Material of gloves:** Not applicable  
**Penetration time of glove material:** Not applicable
- **Eye protection:** Not required

#### LIMITATION AND SUPERVISION OF EXPOSURE INTO THE ENVIRONMENT

None

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:**

Form:	Powder
Color:	White
- **Odor:** Slight
- **Odor threshold:** Not determined
- **pH-value @ 20°C (68°F):** 7.5
- **Change in condition:**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
- **Flash point:** None



**9. PHYSICAL AND CHEMICAL PROPERTIES (CONT.)**

- **Flammability (solid, gaseous):** Not determined
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined
- **Auto igniting:** Product is not self-igniting
- **Danger of explosion:** Product does not present an explosion hazard
- **Explosion limits:**
  - Lower: Not determined
  - Upper: Not determined
- **Vapor pressure:** Not applicable
- **Density @ 20°C (68°F):** 2.1945 g/cm<sup>3</sup> (18.3131 lbs/gal)
  - Relative density: Not determined
  - Vapor density: Not applicable
  - Evaporation rate: Not applicable
- **Solubility in / Miscibility with:**
  - Water: Insoluble
- **Partition coefficient (n-octanol/water):** Not determined
- **Viscosity:**
  - Dynamic: Not applicable
  - Kinematic: Not applicable
- **Solvent content:**
  - Organic solvents: 0.3 %
  - VOC content: 0.31 %
  - Solids content: 100.0 %

**OTHER INFORMATION**

No further relevant information available.

**10. STABILITY AND REACTIVITY**

**REACTIVITY**

No further relevant information available.

**CHEMICAL STABILITY**

**THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED**

No decomposition if used according to specifications.

**POSSIBILITY OF HAZARDOUS REACTIONS**

No dangerous reactions known.

**CONDITIONS TO AVOID**

No further relevant information available.

**INCOMPATIBLE MATERIALS**

No further relevant information available.

**HAZARDOUS DECOMPOSITION PRODUCTS**

No dangerous decomposition products known.

**11. TOXICOLOGICAL INFORMATION**

**INFORMATION ON TOXICOLOGICAL EFFECTS**

- Acute toxicity:

LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION		
<b>1314-23-4 ZIRCONIUM OXIDE</b>		
Inhalative	LC50/96 hours	>100 mg/l (Zebra fish)
<b>1344-28-1 ALUMINIUM OXIDE</b>		
Oral	LD50	>10,000 mg/kg (Rat)
Inhalative	LC50/4 h	>2.6 mg/l (Rat)

**11. TOXICOLOGICAL INFORMATION (CONT.)**

- **Primary irritant effect:**  
**On the skin:** No irritating effect.  
**On the eye:** No irritating effect.
- **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:  
 Irritant
- **Carcinogenic categories:**  
**IARC (International Agency for Research on Cancer)**  
 Group 1 - Carcinogenic to humans  
 Group 2A - Probably carcinogenic to humans  
 Group 2B - Possibly carcinogenic to humans  
 Group 3 - Not classifiable as to its carcinogenicity to humans  
 Group 4 - Probably not carcinogenic to humans

69012-64-2	Silica-Amorphous Silica fume	3
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- **NTP (National Toxicology Program):** None of the ingredients are listed.
- **OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients are listed.

**12. ECOLOGICAL INFORMATION**

**TOXICITY**

- **Aquatic toxicity:** No further relevant information available.

**PERSISTENCE AND DEGRADABILITY**

No further relevant information available.

**BIOACCUMULATIVE POTENTIAL**

No further relevant information available.

**MOBILITY IN SOIL**

No further relevant information available.

**12. ECOLOGICAL INFORMATION (CONT.)**

**ADDITIONAL ECOLOGICAL INFORMATION**

- **General notes:** Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment:**  
PBT: Not applicable.  
vPvB: Not applicable.
- **Other adverse effects:** No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

**WASTE TREATMENT METHOD RECOMMENDATION**

Observe all federal, state and local environmental regulations when disposing of this material.

**UNCLEANED PACKAGING RECOMMENDATION**

Disposal must be made according to official regulations.

**14. TRANSPORT INFORMATION**

- **UN-Number:**  
DOT, ADR/ADN, IMDG, IATA Non-Regulated Material
- **UN proper shipping name:**  
DOT, ADR/ADN, IMDG, IATA Non-Regulated Material
- **Transport hazard class(es):**  
DOT, ADR/ADN, ADN, IMDG, IATA Class Non-Regulated Material
- **Packing group:**  
DOT, ADR/ADN, IMDG, IATA Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN “Model Regulation”:** Non-Regulated Material

## 15. REGULATORY INFORMATION

### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

#### SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION)

- **Section 355 (extremely hazardous substances):** None of the ingredients are listed.
- **Section 313 (Specific toxic chemical listings):**

1344-28-1	Aluminium Oxide
112-34-5	Diethylene Glycol Monobutyl Ether
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol
- **TSCA (Toxic Substances Control Act):** All components have the value ACTIVE.
- **Hazardous Air Pollutants:** None of the ingredients are listed.

#### CALIFORNIA PROPOSITION 65

- **Chemicals known to cause cancer:** None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed.
- **Chemicals known to cause developmental toxicity:** None of the ingredients are listed.
- **New Jersey Right-to-Know List:**

69012-64-2	Silica-Amorphous Silica fume
1344-28-1	Aluminium Oxide
1310-73-2	Sodium Hydroxide
- **New Jersey Special Hazardous Substance List:**

1310-73-2	Sodium Hydroxide	CO, R1
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- **Pennsylvania Right-to-Know List:**

1344-28-1	Aluminium Oxide
1310-73-2	Sodium Hydroxide
- **Pennsylvania Special Hazardous Substance List:**

1344-28-1	Aluminium Oxide	E
1310-73-2	Sodium Hydroxide	E

## 15. REGULATORY INFORMATION (CONT.)

### CARCINOGENIC CATEGORIES

- **EPA (Environmental Protection Agency):** None of the ingredients are listed.
- **TLV (Threshold Limit Value established by ACGIH):**

1314-23-4	Zirconium oxide	A4
1344-28-1	Aluminium Oxide	A4
- **NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients are listed.

### GHS LABEL ELEMENTS

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard-determining components of labeling:**
  - Silica-Amorphous Silica fume
  - Aluminium Oxide
- **Hazard statements:**
  - H335 May cause respiratory irritation.
- **Precautionary statements:**

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional national/international regulations.

### NATIONAL REGULATIONS

None of the ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## **16. OTHER INFORMATION**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

**DATE OF LAST REVISION / REVISION NUMBER:** 08/20/2019 / -

### **ABBREVIATIONS AND ACRONYMS**

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety and Health
- OSHA: Occupational Safety & Health Administration
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous version altered.