

Material Safety Data Sheet



Zap Inc.
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1-877-793-7776

Section 1. Chemical Product and Company Identification

Product name **HEAVY DUTY POWDERED CONCRETE CLEANER**
Product use Concrete Cleaner
Product code R829
Date of issue 08/06/08 Supersedes

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-793-7776

For Medical Emergency
INFOTRAC: (877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 453-7616

Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
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Section 2. Hazards Identification

Emergency overview

DANGER!

CAUSES EYE AND SKIN BURNS.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact.

- Eyes** Corrosive to eyes. Direct contact with the eyes can cause irreversible damage, including blindness.
- Skin** Skin contact may produce burns. The amount of tissue damage depends on length of contact. Skin inflammation is characterized by itching, swelling, or reddening.
- Inhalation** Avoid breathing dust. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing.
- Ingestion** May be harmful if swallowed. May cause burns to mouth, throat, and stomach.

Chronic effects

Repeated or prolonged exposure to the substance can produce target organs damage. Contains material which may cause damage to the following organs: upper respiratory tract, eyes. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage.

Additional information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
SODIUM METASILICATE; silicic acid (H ₂ SiO ₃) disodium salt; water glass	6834-92-0	70 - 80
SODIUM CARBONATE; soda ash; carbonic acid, disodium salt	497-19-8	5 - 15
TRISODIUM ORTHOPHOSPHATE; TSP; phosphoric acid, trisodium salt; sodium phosphate, tribasic	10101-89-0	<5

Section 4. First Aid Measures

- Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.
- Skin Contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention immediately.
- Inhalation** Move exposed person to fresh air. Flush mouth and nasal passages with water repeatedly. If irritation persists, get medical attention.

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Ingestion Do not induce vomiting unless directed to do so by medical personnel. If affected person is conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

National Fire Protection Association (NFPA)



Flash Point Not applicable
Flammable Limits Not applicable
Flammability Not applicable
Fire hazard No specific fire or explosion hazard.
Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use with adequate ventilation. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly after handling. Observe label precautions.
Storage Contains moisture-sensitive material. Store in a dry place. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

SODIUM METASILICATE; silicate salt (Si2-Si-O3) disodium salt; water glass

SODIUM CARBONATE; soda ash; carbonate salt; disodium salt

Exposure limits

ACGIH TLV (United States):
 TWA: 10 mg/m³ 8 hour(s). Form: Dust
 OSHA PEL (United States):
 : 15 mg/m³ Form: Dust
 ACGIH (United States):
 : 15 mg/m³ Form: Dust
 OSHA PEL (United States):
 TWA: 15 mg/m³ 8 hour(s). Form: Total dust

Personal Protective Equipment (PPE)

Eyes Splash goggles. Recommended: Face shield.
Body Wear appropriate protective clothing to prevent skin contact. Recommended: Rubber gloves. Neoprene gloves. Nitrile gloves. Chemical-resistant apron. Chemical resistant boots.
Respiratory Use with adequate ventilation. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist.



Section 9. Physical and Chemical Properties

Physical State Solid. [Powder.]
pH Not applicable.
Boiling Point Not applicable.
Specific Gravity Not applicable.
Solubility Soluble in the following materials: cold water and hot water.
Color Orange.
Odor Pine
Vapor Pressure Not applicable.
Vapor Density Not applicable.
Evaporation Rate Not applicable.
VOC (Consumer) 0.67%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.
Incompatibility Slightly reactive or incompatible with the following materials: metals and acids.
Hazardous Polymerization Will not occur.
Hazardous Decomposition Products carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃ etc.)

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Section 11. Toxicological Information**Acute Toxicity**

Product/Ingredient name	Result	Species	Dose	Exposure
Sodium Metasilicate	LD50 Oral	Rat	2200 mg/kg	-
Sodium Carbonate	LD50 Oral	Rat	2800 mg/kg	-

Section 12. Ecological Information

Environmental Effects: No known significant effects or critical hazards.

Aquatic Toxicity

Product/Ingredient name	Test	Result	Species	Exposure
Sodium Carbonate	-	Acute LC50 320 mg/L Acute LC50 265 mg/L	Fish - Bluegill Daphnia	96 hours 96 hours

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: - (None.)

Classification: - (Non-hazardous waste)

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Classes	PG	Label
DOT Classification	Not applicable.	Not a DOT controlled material (United States).			
IMDG Class	Not determined.				

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for other exceptions, refer to the Bill of Lading with your shipment.

PG: Packing group

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:
No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65: No products were found.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

*NOTE: Hazard Communication System (HCS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are as received on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HCS ratings are to be used with a fully implemented program to manage the hazards of this scale.