



## SAFTY DATA SHEET

### 1: IDENTIFICATION

**Product Name:** Cell Power™ Zeme  
**Other**  
**Identification:** 5-0-10  
**Recommended**  
**Use of Chemical:** Plant nutrient fertilizer concentrate for foliar spray and soil application  
**Uses advised**  
**against:** None  
**Guaranteed by:** OMEX™ Agrifluids, Inc.  
P.O. Box 815, Selma, CA 93662  
559-661-618  
  
**24-hr Emergency**  
**Contact:** CHEMTREC  
1-800-424-9300/1-703-527-3887  
CCN: 816681

### SECTION 2: HAZARD(S) IDENTIFICATON

**Signal Word:**

Warning

**Hazard Classification:**

Serious eye damage/eye irritation-Category 2A  
Skin corrosion/irritation-Category-2



**Hazard Statement(s):**

Causes serious eye irritation  
Causes skin irritation

**Precautionary Statements:**

**Prevention:**

Wash hands thoroughly after handling. Wear protective gloves. Wear protective clothing/eye protection/face protection.

**Response:**

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

**If on skin (or hair):** Wash with plenty of soap and water. If skin irritation occurs, get medical advice or attention. Take off contaminated clothing and wash before reuse.

**Storage:**

Store in original containers only. Keep container tightly closed when not in use. Store in a cool dry well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed by storage or disposal.

**Disposal:**

Do not reuse container. Plastic: Triple rinse (or equivalent), adding rinse water to spray tank, then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****Chemical Ingredients:**

Chemical names	CAS Number	%
Silicic acid, potassium salt; Potassium silicate	1312-76-1	70-85
Proprietary Mixture*		15-30

\*Components not listed are with non-hazardous or withheld as a trade secret.

**SECTION 4: FIRST AID MEASURES****First Aid:**

If inhaled	Move person into fresh air, rest in a position comfortable for breathing.
	Seek medical advice.
If on skin(hair) or clothing	Wash affected skin with plenty of soap and water.
	Remove and wash clothes before reuse.
	If symptoms develop, seek medical advice.
If in eyes	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open.
	Remove contact lenses if possible.
	Call a poison control center or doctor for treatment advice.
If swallowed	Do not give anything by mouth to an unconscious person.
	Do not induce vomiting unless told to do so by the poison control center or doctor.
	Have a person sip a glass of water if able to swallow.
	Call a poison control center or doctor immediately for treatment advice.

**Signs and Symptoms of Short Term (Acute) and Long Term (Chronic) Exposure:**

If in eyes	Risk of serious damage to eyes.
If on skin(hair) or clothing	Irritating to skin.

Alkaline. The toxicity of potassium silicate is dependent on the silica to alkali ratio and on the pH. Have the product container or label with you when calling a poison control center
For emergencies, call CHEMTREC (24-hrs) 1-800-424-9300/1-703-527-3887

#### Indication of any immediate medical attention and special treatment needed

Medical treatments:	Medical regimes should be dictated by a medical professional.
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### SECTION 5: FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	All extinguishing agents permitted.
<b>Fire Fighting Instructions:</b>	None
<b>Hazardous Combustion Products:</b>	Not applicable.
<b>Other special hazard during fire:</b>	Not applicable. Aqueous solution. Non-combustible.
<b>Special Fire-fighting Procedures:</b>	No special instructions.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**In Case of Spill or Leak:** In case of a release, clear the affected area and protect people. Mop up spills and contain spillages with sand, earth or any suitable adsorbent material. Spillages may be slippery. Personal protective equipment should be as follows: gloves, goggles, and appropriate body protection (e.g., boots, Tyvek suit, rubber gloves and leather or cloth gloves, over latex gloves). Keep accidental releases away from drains, water course, soil and open ground.

**Disposal:** Dispose according to Section 13 and product label.

**Personal Precautions:** Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid contact with strong acids and oxidizing agents. This product is a slip hazard when spilt

### SECTION 7: HANDLING and STORAGE

**Safe Handling Procedures:** Avoid contact with eyes, skin and clothing contact. Avoid generation of mist. Wash hands thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use in a well-ventilated location. Product will precipitate and possibly react violently when mixed with strong alkalis. **Storage:** Store in original container only. Keep container tightly closed when not in use. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers. Store in cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products and seed. Away from direct sunlight, sources of intense heat, or where freezing is possible. Store at ambient temperature. Do not contaminate water, food or feed by storage or disposal.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Substance	CAS number	Workplace Exposure Limit (WEL)
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		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15-minute reference period)	
		ppm	mg.m <sup>-3</sup>	ppm	mg.m <sup>-3</sup>
Silicic acid, potassium salt; Potassium silicate	-	-	-	-	2

**Exposure Guidelines:** The primary hazard of potassium silicate is the alkalinity. Avoid release to the environment.

**Engineering Controls:** Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

**Eye and hand protection:** Wear safety glasses. Wear protective clothing: long sleeves and pants, shoes with socks. Wear plastic or rubber gloves.

**Respiratory Protection:** Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

**General Hygiene:** Good personal hygiene practices should always be observed. Wash hands, arms, face thoroughly after handling product before eating, smoking and using the toilet. Wash contaminated clothing before reusing.

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

<b>Appearance:</b>	Yellow
<b>Physical state:</b>	Liquid
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	11-14
<b>Melting Point:</b>	No data available
<b>Freezing Point:</b>	No data available
<b>Boiling Point:</b>	100°C
<b>Flash Point:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Flammability:</b>	No data available
<b>Upper/Lower Flammability Limits:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Bulk Density:</b>	11.56 lbs/gal 20°C
<b>Specific Gravity:</b>	1.3-1.4 20°C
<b>Solubility (in water):</b>	Miscible
<b>Partition Coefficient:</b>	No data available
<b>Auto-ignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available

**Viscosity:** No data

## SECTION 10: STABILITY and REACTIVITY

**Stability:** Product is stable  
**Decomposition:** No known hazardous decomposition products known  
**Hazardous reactions:** When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.  
**Conditions to Avoid:** Gels and generates heat when mixed with acid.  
**Materials to Avoid:** May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Target organs:** Skin, eyes.  
**Routes of Exposure:** Skin and eye contact.  
**Toxicological Data:**  
Acute Oral, LD50(rat): >5,000 mg/kg bw (All symptoms of acute toxicity are due to high alkalinity. Materials will cause irritation.  
Acute Dermal, LD50(rat): >5000 mg/kg bw. Material will cause irritation.  
Acute Inhalation, LC50(rat): >2.06 g/m<sup>3</sup>. Mist is irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity.  
Eye Contact: Material will cause severe irritation. Risk of serious damage to eyes.  
Skin Irritation: Irritating to skin.  
Serious eye damage/irritation: Irritating to eyes. Risk of serious damage to eyes.  
Dermal Sensitization: Not sensitizing  
**Carcinogenic Status:** No known significant effects or critical hazards.  
**Reproductive Effects:** No known significant effects or critical hazards.  
**Teratogenicity:** No known significant effects or critical hazards.  
**Mutagenicity:** No known significant effects or critical hazards.

## SECTION 12: ECOLOGICAL INFORMATION

### Aquatic Toxicity:

Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica. The substance has no potential for bioaccumulation.

Species	Test	Value
Fish ( <i>Leuciscus idus</i> )	LC50 48H	>146 mg/L
Water flea ( <i>Daphnia magna</i> )	EC50 24H	>146 mg/L

**Environmental Hazards:** Do not contaminate water by discharge of waste effluents or equipment wash water. The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Handling for Disposal:** Handle wastes according to recommendations in Section 7.

**Methods for Disposal:** Do not reuse container. Discharge of this product to sewage treatment works is dependent on local regulations with regard to pH controls. Waste material is classified as a RCRA Hazardous waste if it exhibits the corrosive characteristic (pH greater than or equal to 12.5). Plastic: Triple rinse (or equivalent), adding rinse water to spray tank, then offer for recycling at an ACRC site (go to <http://www.arcycle.org/for> locations) or by reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by storage or disposal.

### SECTION 14: TRANSPORT INFORMATION

<b>DOT:</b>	Not regulated in transportation for DOT.
<b>UN number:</b>	Not applicable
<b>UN proper shipping name:</b>	Not applicable
<b>Transport hazard class(es):</b>	Not applicable
<b>Packing group:</b>	Not applicable
<b>Environmental hazards:</b>	Not applicable
<b>Special precautions:</b>	Unsuitable containers: Aluminum
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	Not applicable

### SECTION 15: REGULATORY INFORMATION

<b>TSCA section 12b:</b>	Reported/Included
<b>OSHA:</b>	Not applicable
<b>CERCLA Hazardous Substances and corresponding Reportable Quantity (RQ):</b>	Not applicable
<b>SARA Title III:</b>	
Extremely Hazardous Substance	
Notification (Sec 302):	Not applicable
Hazard Categories (Sec 311/312):	Acute
Toxic Chemicals Notifications (Sec 313):	Not applicable
<b>Clean Air Act (CAA) Section 112</b>	
<b>Hazard Air Pollutants (HAPs) list:</b>	Not applicable
<b>US State Regulations:</b>	Not applicable

**CA Proposition 65:** This product contains no chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

## SECTION 16: OTHER INFORMATION

**SDS Preparation Date:** 1/21/2020

**Revision Date:** New SDS

**Revision Reason:** New SDS

### **FURTHER INFORMATION:**

The above information is based on data of which the manufacturer is aware and is believed to be correct as of the date hereon. Since the information contained herein may be applied under conditions beyond the manufacturer's control and which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, the manufacturer does not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.