

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT COMPANY AND IDENTIFICATION

**Trade Name**                      **Z-PAC**

**Generic Description**            Polyanionic Carboxymethyl Cellulose

**Manufacturer/Supplier**        Horizon Mud Company  
**Address**                            P.O. Drawer 3130    Midland, TX 79702

**Emergency Number**            1-800-395-9332

### 2. COMPOSITION/INFORMATION ON THE COMPONENTS

Material or Component	CAS Number	Percentage
Polyanionic Cellulose		100%

### 3. HAZARD IDENTIFICATION

**Hazard Data:**                    May be mildly irritating to skin, eyes and respiratory tract.

**Health**                            1  
**Flammability**                    1  
**Reactivity**                        0                                      Ratings based on NPFA

**Inhalation:**

May be irritating to the respiratory tract if inhaled. Nuisance dust 15 mg/m<sup>3</sup> total dust.

**Skin Contact:**

May be irritating to the skin with prolonged contact.

**Eye Contact:**

May cause irritation to the eyes.

**Ingestion:**

Not anticipated route of exposure.

**Chronic Health Effects**

None known. Not listed as a carcinogen on IARC, NTP or OSHA lists.

**Medical Conditions Aggravated by Exposure**

None known.

#### 4. FIRST AID MEASURES

**Inhalation:**

Remove person to fresh air. Get medical attention for any breathing difficulty.

**Skin Contact:**

Wash exposed area thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical advice if irritation develops.

**Eye Contact:**

Wash eyes thoroughly with large amounts of running water for at least 15 minutes. Get medical advice if discomfort continues.

**Ingestion:**

Incidental ingestion should not cause gastrointestinal distress.

**Advice to Physicians**

Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

**Flash Point** 431°F

**Flammable Limits** Not determined

**Fire Extinguishing Media** Water, carbon dioxide, dry chemical, foam.

**Unusual Fire and Explosion Hazard** Particulate may accumulate static electricity. Dust explosion may occur when finely divided particles are mixed with air in the presence of an ignition source.

#### 6. ACCIDENTAL RELEASE MEASURES

**Release or Spill**

Contain, collect and place in suitable container for reuse or disposal. Avoid creating dust. Wet product may create a slipping hazard.

**Personal Precautions**

Avoid breathing dust. Use personal protective equipment identified in Section 8.

**Environmental Precautions**

Waste must be disposed of in accordance with all local, state, and federal law.

## 7. HANDLING AND STORAGE

### Handling

Avoid contact with skin and eyes. Avoid generating or breathing dust. Product is slippery if wet. Use only with adequate ventilation. Wash thoroughly after handling.

### Storage

Store in a cool, dry, ventilated area. Use good housekeeping in storage and work areas to prevent accumulation of dust. Keep away from oxidizing agents.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Airborne Exposure Limits

OSHA Permissible Exposure Limit (PEL) 15 mg/m<sup>3</sup> total dust, 5 mg/m<sup>3</sup> respirable fraction for nuisance dusts.

### Ventilation Requirements:

A system of local and/or general exhaust is recommended if handled in a confined area.

### Respiratory Protection

Use NIOSH approved nuisance dust respirator.

### Skin Protection

Not normally necessary. Wear long sleeved clothing and work gloves to prevent repeated or prolonged skin contact.

### Eye Protection

Wear safety glasses with side shields. Maintain eye wash station in work area.

### Other Protection Equipment/Clothing

As appropriate for work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Powder
<b>Color</b>	Off White to Light Yellow
<b>Odor</b>	None
<b>pH</b>	6.5-8.0 at (1% solution)
<b>Specific Gravity</b>	1.5 - 1.6
<b>Boiling Range/Point</b>	Not applicable
<b>Flash Point</b>	430°F
<b>Explosion Limits (%)</b>	Not determined
<b>Density</b>	40-55 lb/cu.ft.
<b>Solubility in Water</b>	Soluble
<b>Vapor Density (Air=1)</b>	Not applicable
<b>Evaporation Rate (butyl acetate=1)</b>	Not applicable

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use and storage.

**Materials to Avoid:** Excessive heat, sparks, flame and strong oxidizers.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** Oxides of carbon

## 11. TOXICOLOGICAL INFORMATION

Oral toxicity: LD50: 1260 mg/kg (rat).

Cancer Status: Not listed as carcinogen by IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

No ecotoxicity data is available. This product is not expected to present an environmental hazard. Readily biodegradable.

## 13. DISPOSAL

Dispose of material in accordance with all local, state, and federal regulations.

## 14. TRANSPORTATION INFORMATION

<b>UN Proper Shipping Name</b>	Not regulated
<b>UN Label</b>	None
<b>UN Identification Number</b>	None
<b>Hazardous Ingredients</b>	None
<b>Placards</b>	None
<b>Reportable Quantity</b>	None

## 15. REGULATORY INFORMATION

<b>TSCA Listed</b>	Yes
<b>SARA Title III Section 302</b>	No
<b>SARA Title III Section 311/312</b>	No
<b>SARA Title III Section 313</b>	No
<b>Canada DSL</b>	Yes

## 16. OTHER INFORMATION

### Abbreviations

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

NIOSH: National Institute for Occupational Safety & Health

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

MSDS Date: 2-23-12

Disclaimer: All information and recommendations concerning product is based on tests and data believed to be reliable; however it is the user's responsibility to determine the safety, toxicity and suitability for the user's own use of the product described herein. Since the actual use by others is beyond our control, no guarantee expressed or implied is made by Horizon Mud Company. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular conditions exist or because of applicable laws or government regulations.