



TULSTAR PRODUCTS, INC.

5510 SOUTH LEWIS AVENUE • TULSA, OK 74105 • (918) 749-9060 • FAX (918) 747-1444
TULSTAR@TULSTAR.COM • WWW.TULSTAR.COM

MATERIAL SAFETY DATA SHEET

Company Information

Company Information: **TULSTAR PRODUCTS, INC.**
5510 S. Lewis Ave.
Tulsa, OK 74105
Phone Number: (918) 749-9060
Fax Number: (918) 747-1444
Email Address: tulstar@tulstar.com
Emergency Phone Number: CHEMTREC 800-424-9300 (24 hours)

Product Information

Product Name: Drilling Mud (P.A.C. Material)
Other Generic names: Polyaiionic Cellulose

Composition/Information on Ingredients

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Weight %</u>
Sodium Carboxymethyl Cellulose	9004-32-4	85.0 to 100
Sodium Chloride	7647-14-5	0.0 to 12.5
Sodium Glycolate	2836-32-0	0.0 to 2.5

Hazards Identification

Not classified as a hazardous material.

First Aid Measures

Symptoms & Effects: No typical symptoms and effects known.
First Aid Measures:
General- In case of doubt, or when symptoms persist, seek medical attention.
Skin- Wash immediately with soap and water.
Eye- Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
Inhalation- Move to fresh air. If symptoms persist, seek medical advice.
Ingestion- Rinse mouth, give water to drink.
Advice to Physician: No specific recommendations.

Fire Fighting Measures

Auto Ignition Temperature: 460°C
Lower Explosion Limit: 125 g/m³
Extinguishing Media: Water, carbon dioxide, foam, powder
Fire Fighting Procedures: This product is considered combustible. If involved in a fire, use suitable extinguishing agents such as water, foams, carbon dioxide extinguishers.
Fire & Explosion Hazards: Sodium Carboxymethyl Cellulose mixtures of dust/air may ignite violently upon exposure to sparks or sources of ignition. Use only non sparking tools when working in areas containing concentrations of CMC/air.
Hazardous Products of Combustion: CO, CO₂ hydrocarbons

Accidental Release Measures

Personal Precautions:	No specific recommendations.
Environmental Precautions:	Collect as much as possible in a clean container for reuse or disposal.
Cleanup:	Preferably dry. Sweep up and place in a container for disposal. Product becomes very slippery when exposed to water.

Handling & Storage

Handling:	Handle in well ventilated areas. Avoid dust generation.
Storage:	Keep only in the original packaging and away from water. Material is very hygroscopic and will absorb moisture from the air.
Maximum Storage Temp:	Not determined.
General Comments:	Keep containers tightly closed until ready for use.

Exposure Controls/Personal Protection

Respiratory Protection:	In case of dust formation, use a suitable particulate dust mask.
Skin Protection:	Not relevant.
Eyes:	In dusty areas, protective eye goggles should be worn to prevent CMC from entering the eyes.
Ventilation Protection:	Use sufficient ventilation to prevent the accumulation of dusts. Mixtures of air/CMC can be explosive.

Physical & Chemical Properties

Appearance:	White to off white, free flowing powder
Odor:	Odorless
Solubility in Water:	Soluble (20°C)
Solubility in Solvents:	Insoluble
pH:	6.0 to 8.5 (1% solution)
Boiling Point:	Not applicable
Melting Point:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Flash Point:	Not applicable
Flammability:	Not applicable
Auto Ignition Temp:	460°C
Explosive Properties:	Dust explosion hazard
Oxidizing Properties:	Not applicable
Bulk Density:	15 to 55 lbs/ft ³
Partition Coefficient:	Not determined

Stability & Reactivity

Stability:	This product is stable at recommended storage and handling conditions.
Incompatibilities:	Not relevant.
Polymerization:	Hazardous polymerization will not occur.
Decomposition:	Thermal decomposition produces CO, CO ₂ hydrocarbons.
Conditions to Avoid:	Not relevant.

Toxicological Information

Acute Toxicity:	Oral LD50, rat 15000-27000 mg/kg
Sensitization:	Not sensitizing (human experience)
Genotoxicity:	Ames Test; not mutagenic
Other Toxic Info:	Not carcinogenic Not teratogenic Not embryotoxic

Disposal Considerations

Waste Disposal:	According to local regulations, non-hazardous.
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Contaminated Packaging:

According to local regulations.