



**BJ SERVICES COMPANY**  
**MATERIAL SAFETY DATA SHEET**

Region  
USA

**SECTION I - GENERAL INFORMATION**

PRODUCT NAME: **Carboprop**  
ITEM NUMBER: 499820, 499817, 499876, 426807  
CHEMICAL DESCRIPTION: Synthetic semi-crystalline alumina silicate  
PRODUCT USE: Ceramic Proppant  
SUPPLIER: BJ Services Company  
ADDRESS: 11211 FM 2920  
Tomball, TX 77375  
**EMERGENCY TELEPHONE NUMBER (800)424-9300 for CHEMTREC  
(703)527-3887 Alaska and International**  
PREPARED BY: BJ Services Environmental Group  
(281)351-8131  
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**HMIS HAZARD INDEX**  
HEALTH: 2  
FLAMMABILITY: 0  
REACTIVITY: 0  
PERSONAL PROTECTION: e

**SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
alpha-Alumina	1344-28-1	30 – 70	Irritant
Mullite	1302-76-7	30 – 70	Irritant
Silicon dioxide (crystalline)	N.A.	0 – 1	Irritant

**SECTION III - FIRE AND EXPLOSION HAZARD DATA**

FLASHPOINT (METHOD): None  
UPPER EXPLOSION LIMIT(% BY VOL): N.A.  
LOWER EXPLOSION LIMIT(% BY VOL): N.A.  
AUTO-IGNITION TEMPERATURE: N.A.  
EXTINGUISHING MEDIA: Use extinguishing agent suitable for surrounding fire.  
SPECIAL FIRE FIGHTING PROCEDURES: None  
EXPLOSION DATA: N.A.  
HAZARDOUS COMBUSTION PRODUCTS: N.A.

**SECTION IV - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Skin and eye contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: May be slightly irritating.  
SKIN ABSORPTION: Not absorbed through intact skin.  
EYE CONTACT: Slightly irritating. Abrasive action may cause damage to the outer surface of the eye.  
INHALATION: Product contains little or no particles of respirable size. However, the amount of fines may increase due to attrition during shipment, use and handling. Dusts may cause respiratory tract irritation.  
INGESTION: Not intended for ingestion, however, if ingested may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

CHRONIC OVEREXPOSURE EFFECTS: Repeated or prolonged breathing of particles of respirable size may cause severe respiratory disease. Effects may include inflammation of the lung, chest pain, difficult breathing, coughing and possible fibrotic change in the lung--"Pneumoconiosis". Pre-existing medical conditions may be aggravated by exposure: specifically, bronchial hyper-reactivity and chronic bronchial or lung disease.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
alpha-Alumina	5 mg/m3 (respirable dust) 10 mg/m3 (total dust)	5 mg/m3 (respirable dust) 15 mg/m3 (total dust)
Mullite	5 mg/m3 (respirable dust) 10 mg/m3 (total dust)	5 mg/m3 (respirable dust) 15 mg/m3 (total dust)
Silicon dioxide (crystalline)	10 mg/m3 (respirable dust) 30 mg/m3 (total dust)	10 mg/m3 (respirable dust) 30 mg/m3 (total dust)

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Not listed as carcinogen – IARC, NTP, or OSHA

TERATOGENICITY, MUTAGENICITY:

No effects listed.

TOXICITY STUDIES:

LD(50) N.E.

LC(50) N.E.

**SECTION V - FIRST AID PROCEDURES**

FOR EYES: Flush immediately with large amounts of water. Eye lids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

FOR SKIN: Wash area of contact thoroughly with water and mild soap if available. Get medical attention if irritation persists.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

FOR INGESTION: If victim is conscious, give 1-3 glasses of water or milk to dilute stomach contents. Get medical attention for gastrointestinal symptoms.

## **SECTION VI - PHYSICAL DATA**

APPEARANCE AND ODOR: Dark green to gray pellets, odorless

SPECIFIC GRAVITY: 3.25

VAPOR PRESSURE: N.A.

VAPOR DENSITY (air=1): N.A.

EVAPORATION RATE: N.A.

BOILING POINT: N.A.

FREEZING POINT: N.A.

SOLUBILITY IN H<sub>2</sub>O: Insoluble

pH: N.A.

## **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: Chlorine trifluoride

HAZARDOUS POLYMERIZATION: Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS: N.A.

## **SECTION VIII - SPECIAL/PERSONAL PROTECTION**

VENTILATION: The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air movement.

RESPIRATORY PROTECTION: Dust mask. Use NIOSH/MSHA approved equipment when airborne exposure limits are exceeded.

PROTECTIVE GLOVES: Rubber or neoprene

EYE PROTECTION: Goggles. Do not wear contact lenses when working with this substance.

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment should be easily accessible.

## **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES: No special procedures are required for clean-up of spills of this material. Avoid methods that result in water pollution.

WASTE DISPOSAL: If this product becomes a waste it does not meet the requirements of a RCRA hazardous waste. Always dispose of according to local, state, and federal regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid breathing dusts.

STORAGE REQUIREMENTS: None

## **SECTION X - REGULATORY INFORMATION**

### **SHIPPING INFORMATION**

PROPER SHIPPING NAME: Not DOT Regulated  
HAZARD CLASS: N.A.  
UN/NA NUMBER: N.A.  
PACKING GROUP W/ "PG": N.A.  
SUBSIDIARY RISK: N.A.  
REPORTABLE QUANTITY (RQ): N.A.  
EMERGENCY RESPONSE GUIDE #: N.A.

### **ENVIRONMENTAL INFORMATION**

#### **SARA TITLE III**

SECTION 302/304 This product does not contain ingredients listed as an Extremely Hazardous Substance.  
SECTION 311/312 Immediate  
SECTION 313 This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

#### **OTHER REGULATORY INFORMATION**

TSCA INVENTORY: All of the components in this appear on the TSCA inventory.  
CALIFORNIA PROP 65: This product contains crystalline silica, known to the State of California to cause cancer.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.