

**SAFETY DATA SHEET**

**DREXEL BS-500™**

**Section 1: Material Identification**

**Product Name:** Drexel BS-500™

**GHS product identifier:** Mixture of ammonium salts

**Company:** Drexel Chemical Company  
1700 Channel Avenue  
Memphis, TN 38106

**Recommended use:** Buffer, chelate, sequestrant

**Recommended restrictions:** None available

**Synonyms:** None available

**Emergency Telephone Number:**

CHEMTREC  
Tel: 1-800-424-9300

Drexel Chemical Co.  
901-774-4370

**Section 2: Hazard Identification**

(As defined by the OSHA Hazard Communication Standard, 29)

**GHS classification:**

<b>Health hazards:</b>	Skin corrosion/irritation	Category 1
	Eye damage/irritation	Category 1
	Acute toxicity - oral	Category 4
	Acute toxicity - inhalation	Category 4

**GHS label elements:**

**Signal word:** Danger



**Hazard statement:** Causes severe skin burns and eye damage.  
Causes serious eye damage.  
Harmful if swallowed.  
Harmful if inhaled.

**Precautionary statement:**

**Prevention:**

Avoid breathing dust/fume/gas/mist/vapor/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear eye protection, face protection, protective clothing, protective gloves.

**Response:**

**If skin irritation occurs:** Get medical advice/attention.  
**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 CLOTHING:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.  
**IF SWALLOWED:** Call poison center or doctor/physician if you feel unwell.  
**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.

**Storage:**

Store in closed container and locked up.  
Store in well ventilated place.  
Keep container tightly closed.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Specific hazards:**

None available

**Section 3: Composition Information**

<u>Components</u>	<u>CAS No.</u>	<u>% By Wt.</u>
Active Ingredients:		
Blend of ammonium salts of polyacrylic, hydroxy-carboxylic, phosphoric acid	Mixture	50.00%
Inert ingredients:	N/A	50.00%

**Section 4: First-Aid Measures**

**Eye Contact:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Call poison control center or doctor for treatment advice.

**Skin Contact:** Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

**Inhalation:** Move person to fresh air. If not breathing call 911 and give artificial respiration. Call poison control center or doctor for treatment advice.

**Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

## Section 5: Fire Fighting Measures

**Suitable extinguishing media:** Water spray, CO<sub>2</sub>, dry chemical, foam

**Specific hazards arising from the chemical:** Can be dangerous when exposed to extreme heat and flame. Do not breathe mist/vapors/spray.

**Protective equipment and precautions for firefighters:** Assure self-contained breathing apparatus is worn. Fight fire from upwind. Prevent runoff if possible.

**NFPA: Health: Flammability: Reactivity:**

2 0 0

(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)

## Section 6: Accidental Release Measures

### Personal Precautions:

- Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Keep upwind of spill. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Use safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment:** Stop the flow of material, if this is without risk. Collect and dispose of spillage as indicated in section 13. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up:** Pick up spills with absorbent material and place in suitable properly labeled containers.

## Section 7: Handling and Storage

### KEEP OUT OF REACH OF CHILDREN

**Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Handle in accordance with good industrial hygiene and safety procedures

**Storage:** Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

## Section 8: Exposure Controls / Personal Protection

**Occupational exposure limits:** TLV: 1 mg/m<sup>3</sup>

### Engineering controls:

Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

**Personal protective equipment:**

**Eye/Face Protection:** Use chemical goggles.

**Skin Protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

**Hand protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Polyvinyl chloride ("PVC" or "vinyl").

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

## Section 9: Physical and Chemical Properties

<b>Physical state:</b>	Liquid
<b>Color:</b>	Colorless to pale yellow
<b>Form:</b>	Liquid
<b>Odor:</b>	Mild
<b>Odor threshold:</b>	Not available
<b>pH:</b>	2.0-2.5
<b>Melting/freezing point:</b>	33°F
<b>Boiling point:</b>	>212°F
<b>Flash point:</b>	>250°F (Non-combustible)
<b>Evaporation rate:</b>	Not available
<b>Flammability:</b>	Not available
<b>Flammability limits in air, lower:</b>	Not available
<b>Flammability limits in air, upper:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Relative density:</b>	1.20 g/mL (10.0 lbs/gal)
<b>Solubility:</b>	Complete in water
<b>Octanol/water coefficient:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available

## Section 10: Stability and Reactivity

<b>Chemical stability/instability:</b>	Stable at typical use temperatures.
<b>Conditions to avoid:</b>	Avoid highly alkaline conditions, extreme temperatures.
<b>Incompatible materials:</b>	Potassium chlorate, potassium nitrate, mild steel
<b>Possibility of hazardous reactions:</b>	Will not occur

**Hazardous decomposition products:** Ammonia gas, oxides of nitrogen and carbon

## Section 11: Toxicological Information

### **Toxicology data:**

#### **Components:**

Blend of ammonium salts of polyacrylic, hydroxy-carboxylic, phosphoric acid

#### **Test results:**

Acute oral TDLO (human): 1500 mg/kg  
Acute dermal LD50 (rabbit): No data available  
Inhalation TCLO (human): 408 mg/l

**Routes of exposure:** Skin contact. Eye contact. Ingestion.

**Acute effects:** Severe skin burns. Serious eye damage. Harmful if inhaled. Harmful if swallowed.

**Sensitization:** No data available

**Chronic effects:** No data available

**Carcinogenicity:** No data available

**Mutagenicity:** Non-mutagenic for bacteria and/or yeast

**Reproductive effects:** No data available

**Teratogenicity:** No data available

**Epidemiology:** No data available

**Skin corrosion/irritation:** Causes severe skin burns

**Eye damage/eye irritation:** Causes serious eye damage

**Specific target organ toxicity - single exposure:** May cause respiratory irritation

**Specific target organ toxicity - repeated exposure:** Not classified

**Other information:** Not available

## Section 12: Ecological Information

### **Ecotoxicological data:**

#### **Components:**

Blend of ammonium salts of polyacrylic, hydroxy-carboxylic, phosphoric acid

#### **Test results:**

LC50 Algae: No data available  
EC50 Daphnia: No data available  
LC50 Fish: No data available

**Persistence and degradability:** Not established

**Bioaccumulation:** Not established

**Mobility in soil:** Not available

**Other adverse effects:** Avoid release to open bodies of water.

## Section 13: Disposal Considerations

**Disposal methods:** Dispose of in accordance with label instructions and all applicable regulations.

**Contaminated packaging:** Dispose of in accordance with applicable federal, state and local regulations.

## Section 14: Transport Information

### In accordance with ICAO/IATA/DOT/TDG:

**UN number:** UN-1760  
**UN proper shipping name:** Corrosive liquids, n.o.s., (contains phosphoric acid)  
**Transport hazard classes:** 8  
**Packing group:** III  
**Environmental hazards:** None known  
**Transport in bulk:** Reportable quantity 5000 lbs.  
**Special precautions:** Not available  
**Freight description:** Agricultural spray adjuvant, liquid, n.o.s.  
**ERG Guide No.:** 154

## Section 15: Regulatory Information

### International inventories:

**TSCA:** Complies  
**EINECS/ELINCS:** Complies  
**ENCS:** Complies  
**IECSC:** Complies  
**KECL:** Complies  
**PICCS:** Complies  
**AICS:** Complies

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:

**Immediate (Acute) Health Hazard:** Yes  
**Delayed (Chronic) Health Hazard:** Yes  
**Fire Hazard:** No  
**Reactive Hazard:** No  
**Sudden Release of Pressure Hazard:** No

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:

- This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

<u>Component</u>	<u>CAS No.</u>	<u>% By Weight</u>	<u>SARA 313- Threshold values (%)</u>
No components			

## Section 16: Other Information

*Drexel Chemical Company recommends that each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any - hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.*

Revised: November 9, 2017

Supersedes: October 9, 2015