



## Brazos River Authority

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September 1, 2021

**Addendum No. 1  
Wastewater Treatment Chemicals  
RFB No. 21-08-1238**

It is the responsibility of the Respondent to assure and guarantee by acknowledging the receipt of this Addendum in the Bid that the Respondent has received the Addendum in its entirety, and that the Respondent accepts all conditions contained herein.

**Question 1:**

Can you provide a PDS and/or some specifications, we can likely provide a functional equivalent.

**Answer 1:**

SDS Sheets are attached at the end of this addenda.

**Question 2:**

Would you advise current price and/or last bid tab for wastewater treatment chemicals, referenced above, used by BRA at Sugarland WWTP's.

**Answer 2:**

This information is not available at this time.

**Question 3:**

Can I please get the TDS for the Polymer FBS 7802?

**Answer 3:**

SDS Sheets are attached at the end of this addenda.

**Question 4:**

Can we get more details about FBS 7802 like chemical composition and other properties and requirements.

**Answer 4:**

SDS Sheets are attached at the end of this addenda.

Sincerely,

*Anastasia V. Vance*

Anastasia Vance, CTCD  
Purchasing Manager



# SAFETY DATA SHEET

## FBS 7802

### I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FBS 7802  
CHEMICAL NAME: Cationic water-soluble polymer in emulsion  
PRODUCT USE: Flocculation/Dewatering agent  
SUPPLIER: Fort Bend Services Inc. Tel: 281-261-5199  
13303 Redfish Lane Tel: 800-933-3678  
Stafford, TX 77477 USA  
EMERGENCY TELEPHONE:  
CHEMTREC: 1-800-424-9300  
IDENTIFICATION NO:

### II. HAZARDS IDENTIFICATION

#### Emergency overview

Caution – Spills Produce extremely slippery surfaces.  
May cause eye and skin irritation.  
Use with local exhaust ventilation. Wear protective clothing.  
Eye wash fountains and safety showers must be readily accessible.

#### Potential health effects

##### **Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

##### **Chronic toxicity:**

##### **Carcinogenicity:**

None of the components in this product are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

##### **Reproductive toxicity:**

No data available. No effects anticipated.

##### **Teratogenicity:**

No data available concerning teratogenic effects.

##### **Genotoxicity:**

The chemical structure does not suggest a specific alert for such an effect.

### III. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Content (W/W)	Chemical Name	Classification
64742-47-8	20 – 30%	Distillates, petroleum hydrotreated light	Asp. Tox. 1; H304
69011-36-5	< 5.0%	Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched	Asp. Tox. 1; H302 Eye Dam. 1: H318

### IV. FIRST AID MEASURES

#### **Note to physician:**

Treatment: Treat according to symptoms.

#### **INHALATION:**

Move to fresh air. No hazards which require special first aid measures.

#### **INGESTION:**

Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control center immediately.

#### **SKIN CONTACT:**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

#### **EYE CONTACT:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

### V. FIRE-FIGHTING MEASURES

Flash point not applicable  
Flammability not highly flammable  
Self-ignition temperature not self-igniting

#### **SUITABLE EXTINGUISHING MEDIA:**

Water. Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry Powder. Warning! Spills produce extremely slippery surfaces.

#### **ADDITIONAL INFORMATION:**

Avoid use of water jet. If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist. Contaminated extinguishing water must be disposed of in accordance with official regulations.

**HAZARDS DURING FIRE-FIGHTING:**

Spilled product is slippery underfoot. Extremely slippery when wet.  
Thermal decomposition may produce: hydrogen chloride, nitrogen oxides, carbon oxides, ammonia.  
Hydrogen cyanide may be produced in the event of combustion in an oxygen deficient atmosphere.

**PROTECTIVE EQUIPMENT FOR FIRE-FIGHTING:**

Wear a self-contained breathing apparatus and protective suit. Wear adequate personal protective equipment

**VI. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:**

Use personal protective clothing. Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

**ENVIRONMENTAL PRECAUTIONS:**

As will all chemical products, do not flush into surface water

**SPILL CLEAN UP METHODS:**

**DO NOT FLUSH WITH WATER.** Small Soak up with inert absorbent material. Sweep up and shovel into suitable container for disposal. Large-Damp up. Soak up residual material with an inert absorbent material. Clean up promptly by scoop or vacuum. Keep in suitable, closed and labeled container(s) for disposal in accordance with local, state and federal regulations. After cleaning, flush away traces with water.

**VII. HANDLING AND STORAGE**

**HANDLING:**

Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

**STORAGE:**

Keep container tightly closed and dry; store in a cool and dry place (0 - 30°C). Avoid wet, damp or humid conditions. Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the product.  
Incompatible with oxidizing agents.

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMITS:**

Distillates (petroleum), hydrotreated light                      ACGIH                      TWA value 200 mg/m<sup>3</sup> (8 hour)

**ENGINEERING CONTROLS:**

Ensure adequate ventilation, especially in confined areas. Use local exhaust if misting occurs.  
Natural ventilation is adequate in the absence of mists.

**PROTECTIVE EQUIPMENT:**



**RESPIRATORY EQUIPMENT:** Not required except in case of aerosol formation.

**HAND PROTECTION:** PVC or plastic material gloves

**EYE PROTECTION:** Safety glasses with side-shields; do not wear contact lenses where product is used.

**SKIN PROTECTION:** Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

**HYGIENE MEASURES:** Wash hands before breaks and immediately after handling product. Handle in accordance with good industrial hygiene and safety practice

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Viscous liquid, Milky.

**ODOR:** Aliphatic

**pH:** 4 - 6 @ 5 g/l

**RELATIVE DENSITY:** 1.0 - 1.2

**FREEZING POINT:** < 5° C

**BOILING POINT:** > 100°C

**FLASH POINT:** Does not flash

**DECOMPOSITION POINT:** > 150°C

**VAPOR PRESSURE (mmHg):** 2.3 kPa @ 20°C

**VAPOR DENSITY:** 0.804 g/litre @ 20° C

**SOLUBILITY IN WATER:** Soluble, solubility limited by viscosity

**VISCOSITY:** > 20.5 mm<sup>2</sup>/s @ 40° C

## X. STABILITY AND REACTIVITY

### CONDITIONS TO AVOID:

Protect from frost, heat and sunlight. S

### UBSTANCES TO AVOID:

Oxidizing agents may cause exothermic reactions.

### HAZARDOUS REACTIONS:

Stable under normal conditions. No hazardous reactions known.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition may produce: hydrogen chloride, nitrogen oxides, carbon oxides, ammonia.

Hydrogen cyanide may be produced in the event of combustion in an oxygen deficient atmosphere.

### CORROSION TO METALS:

No corrosive effect on metals

### OXIDIZING PROPERTIES:

Not fire-propagating

## XI. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

#### ORAL:

Type of value: LD50  
Species: rat  
Value: >5,000 mg/kg

#### DERMAL:

Type of value: LD50  
Species: rat  
Value: >5,000 mg/kg

**INHALATION:** This product is not expected to be toxic by inhalation.

### IRRITATION/CORROSION

**SKIN:** Non-irritating  
**EYE:** May cause eye irritation with susceptible persons  
**SENSITIZATION:** Not sensitizing

### Relevant information on the hazardous components:

#### Distillates, petroleum hydrotreated light

Acute oral toxicity:	LD50/oral/rat	> 5000 mg/kg OECD 401
Acute dermal toxicity:	LD50/dermal/rabbit	> 5000 mg/kg OECD 402
Acute inhalation toxicity:	LC50/inhalation/4 hr/rat	4951 mg/m <sup>3</sup> OECD 403
Skin corrosion/irritation:	Not irritating OECD 404	
Eye corrosion/irritation:	Not irritating OECD 405	
Sensitization:	Not expected to be sensitizing	

#### Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched

Acute oral toxicity:	LD50/oral/rat	500 - 2000 mg/kg
Acute dermal toxicity:	LD50/dermal/rabbit	> 2000 mg/kg
Acute inhalation toxicity:	No data available	
Skin corrosion/irritation:	Not irritating	
Eye corrosion/irritation:	Risk of serious damage to eyes	
Sensitization:	Non-sensitizing in tests on guinea pigs	

## XII. ECOLOGICAL INFORMATION

### Fish

Acute:  
Danio rerio/LC50 (96): 10 -100 mg/L OECD 203

### Aquatic invertebrates

Acute:  
Daphnia/EC50 (48 h): 10 -100 mg/L OECD 202

**Algae:** Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

### Environmental Fate

**Hydrolysis:** At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

**Bioaccumulation:** Does not bioaccumulate

**Other Information:** The effects of this product in aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

**Relevant information on the hazardous components:**

**Distillates, petroleum, hydrotreated light**

Acute toxicity to fish:	LC50/Oncorhynchus mykiss/96 hr	>1000 mg/L
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hr	>1000 mg/L
Acute toxicity to algae:	IC50/Pseudokirchneriella subcapitata/72 hr	>1000 mg/L
Chronic toxicity to fish:	NOEC/Oncorhynchus mykiss/28 day	>1000 mg/L
Chronic toxicity to invertebrates:	NOEC/Daphnia magna/21 day	>1000 mg/L
Toxicity to microorganisms:	EC50/Tetrahymena pyriformis/48 hr	>1000 mg/L

**Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched**

Acute toxicity to fish:	LC50/Cyprinus carpio/96 hr	1 - 10 mg/L
Acute toxicity to invertebrates:	EC50/Daphnia/48 hr	1 - 10 mg/L
Acute toxicity to algae:	IC50/Desmodesmus subspicatus/72 hr	1 - 10 mg/L
Chronic toxicity to fish:	No data available	
Chronic toxicity to invertebrates:	No data available	
Toxicity to microorganisms:	EC10/activated sludge/17 hr	> 10000 mg/L

**XIII. DISPOSAL CONSIDERATIONS**

**WASTE MANAGEMENT:**

Dispose of in accordance with national, state and local regulations.

**CONTAINER DISPOSAL:**

Rinse empty containers with water and use the rinse-water to prepare the workign solution. If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

**RCRA:**

Not a hazardous waste under RCRA (40 CFR 261)

**XIV. TRANSPORT INFORMATION**

**LAND TRANSPORT:**

US DOT Not classified as a dangerous good under transport regulations

**SEA TRANSPORT:**

IMDG Not classified as a dangerous good under transport regulations

**AIR TRANSPORT:**

IATA/ICAO Not classified as a dangerous good under transport regulations

**XV. REGULATORY INFORMATION**

**TSCA:** Listed

**CANADA (DSL):** Listed

**OSHA HAZARD CATEGORY:** This material is classified as not hazardous under OSHA regulations.

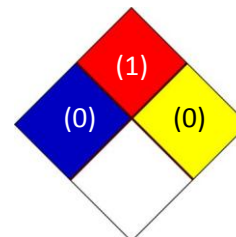
**EPCRA 311/312:** Not hazardous

**CALIFORNIA PROP. 65:** The product contains the following substance(s) known to the State of California to cause cancer: Acrylamide

**XVI. OTHER INFORMATION**

**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)      NATIONAL FIRE PROTECTION ASSN (NFPA)**

<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>



**GENERAL INFORMATION:**

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