



SAFETY DATA SHEET

FBS 7602

I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FBS 7602

CHEMICAL NAME: Cationic water-soluble polymer in emulsion

PRODUCT USE: Flocculation/Dewatering agent

SUPPLIER: Fort Bend Services Inc.
13303 Redfish Lane
Stafford, TX 77477 USA

Tel: 281-261-5199
Tel: 800-933-3678

EMERGENCY TELEPHONE:

CHEMTREC: 1-800-424-9300

IDENTIFICATION NO:

II. HAZARDS IDENTIFICATION

State of Matter: Viscous liquid, milky in color with aliphatic odor

Emergency overview

Caution – Slippery when wet!

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:

Not carcinogenic.

Reproductive toxicity:

Not toxic for reproductivity

Mutagenicity:

Not mutagenic

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	Acute Tox. 4; H302, Eye Dam. 1; H318

IV. FIRST AID MEASURES

INHALATION:

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

INGESTION:

Rinse mouth with water. Do NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT:

Wash affected areas thoroughly with soap and water. Seek medical attention if irritation persists.

EYE CONTACT:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention immediately.

V. FIRE-FIGHTING MEASURES

Flash point does not flash
Auto-ignition temperature does not ignite

SUITABLE EXTINGUISHING MEDIA:

Dry powder, foam, carbon dioxide, water, water spray

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 gas, 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 self-contained breathing apparatus and protective suit.

VI. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Use personal protective equipment.

ENVIRONMENTAL PRECAUTIONS:

Do not discharge into drains/surface waters/groundwater.

SPILL CLEAN UP METHODS:

Do not flush with water. Dike spill. Large spills clean up promptly by scoop or vacuum. Soak up residual material with an inert absorbent material. Keep in suitable, closed and labeled container(s) for disposal in accordance with local, state and federal regulations.

VII. HANDLING AND STORAGE

HANDLING:

Avoid contact with skin and eyes. Ensure there is adequate local/mechanical exhaust. Do not smoke.

Handle in accordance with good industrial hygiene and safety practices.

STORAGE:

Keep container tightly closed and dry; store in a cool and dry place (0 - 30°C). Avoid wet, damp or humid conditions, temperature extremes and ignition sources. 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 ³ (8 hour)
---	-------	--

ENGINEERING CONTROLS: Ensure adequate ventilation. 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 or inadequate ventilation.

HAND PROTECTION:

PVC or other plastic material gloves

EYE PROTECTION:

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

SKIN PROTECTION:

Protective clothing

HYGIENE MEASURES:

Handle in accordance with good industrial hygiene and safety practice

IX. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Viscous liquid

ODOR: Aliphatic

COLOR: Milky white

pH: 4 - 6 (5 g/l)

RELATIVE DENSITY: 1.0 - 1.1

MELT/FREEZE POINT: < 5°C

AUTOIGNITION TEMPERATURE: Does not ignite

FLASH POINT: Does not flash

DECOMPOSITION TEMPERATURE: > 150°C

VAPOR PRESSURE (mm Hg): 2.3 kPa @ 20°C

VAPOR DENSITY: 0.804 g/litre @ 20°C

VISCOSITY: >20.5 @ 40°C (mm²/s)

SOLUBILITY: Completely miscible

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Avoid extreme temperatures. Protect from frost, heat, and sunlight.

SUBSTANCES TO AVOID:

Oxidizing agents may cause exothermic reactions.

HAZARDOUS REACTIONS:

Stable under normal conditions. Hazardous polymerization does not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides, carbon oxides, ammonia
Hydrogen cyanide may be produced in the event of combustion in an oxygen deficient atmosphere.

XI. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

ORAL:

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

SKIN:

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:

Slightly irritating

EYE:

May cause eye irritation with susceptible persons

SENSITIZATION:

Not sensitizing

CHRONIC TOXICITY:

No chronic effects.

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 ³ 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:	Non-sensitizing	
Eye corrosion/irritation:	Causes severe irritation	
Sensitization:	Did not cause allergic skin reactions when tested in guinea pigs	

XII. ECOLOGICAL INFORMATION

Fish

Acute: 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.

Degradation:

Readily biodegradable

Bioaccumulation:

Not expected to bioaccumulate

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:	ICO/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:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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

SARA: No reporting requirements

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

USA (TSCA): All components are listed or exempt from listing

CANADA (DSL): All components are listed or exempt from listing

STATE REGULATIONS

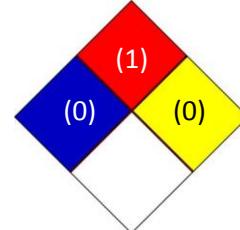
State RTK	CAS Number	Chemical Name
MA, NJ, PA	64742-47-8	Distillates, petroleum, hydrotreated light

XVI. OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

NATIONAL FIRE PROTECTION ASSN (NFPA)

HEALTH	0
FLAMMABILITY	1
PHYSICAL	0
PERSONAL PROTECTION	B



GENERAL INFORMATION:

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER YOU EXPRESSLY UNDERSTAND AND AGREE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.