

SAFETY DATA SHEET

Sulfate BioChem (SBC)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Sulfate BioChem
GENERAL USE: Anaerobic oxidation of petroleum products

MANUFACTURER:

Redox Tech, LLC
200 Quade Drive
Cary, NC 27513
919-678-0140

EMERGENCY TELEPHONE:

Within USA and Canada: 1-800-424-9300
+1 703-527-3887 (collect calls accepted)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May have a slight sulfur odor.

Off-white granular powder.

May react in the presence of a reducing agent and water to produce hydrogen sulfide.

Contact with eyes will likely cause irritation and should be rinsed immediately.

Should be no irritation upon contact with skin.

Dusk exposure may cause irritation to breathing tract.

3. COMPOSITION INFORMATION ON INGREDIENTS

All the components are non-hazardous

4. FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes. See a medical doctor immediately thereafter.

SKIN: Rinse with water. Irritation is unlikely, but if irritation occurs or persists, seek medical attention.

INGESTION: Dilute by drinking 1-2 liters of water. Do not induce vomiting. It may induce diarrhea. If diarrhea persists, seek medical attention.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, seek medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Deluge with water

FIRE/EXPLOSION HAZARDS: Product is non-combustible but it may release noxious sulfur compounds during a fire.

FIRE FIGHTING PROCEDURES: Use flooding with plenty of water, carbon dioxide or other inert gasses. Wear full protective clothing and self-contained breathing apparatus. Deluging with water is the best method to control combustion of the product.

FLAMMABILITY LIMITS: non-combustible

SENSITIVITY TO IMPACT: non-sensitive

SENSITIVITY TO STATIC DISCHARGE: not available

6. ACCIDENTAL RELEASE MEASURES

Confine and collect spill. Transfer to an approved DOT container and properly dispose. Do not dispose of or rinse material into sewer, stormwater or surface water.

7. HANDLING AND STORAGE

HANDLING: Avoid contact by using personal protective equipment.

STORAGE: Keep dry. Use first in, first out storage system. Keep container tightly closed when not in use. Avoid contamination of opened product. Avoid contact with reducing agents.

COMMENTS: Use gentle mechanical ventilation or exhaust during use to minimize dust production.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

All components are non-hazardous

ENGINEERING CONTROLS: None are required. If active ventilation is used, it should be gentle as to not create dust.

PERSONAL PROTECTIVE EQUIPMENT

EYES and FACE: Safety goggles

RESPIRATOR: dust mask but not respirator

PROTECTIVE CLOTHING: None necessary

GLOVES: rubber, latex or neoprene

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	none to slight sulfur
Appearance:	white to slightly yellow, solid
Auto-ignition Temperature	Non-combustible
Boiling Point	>600 C
Melting Point	48.1 C
Density	0.95 gram/cc
Solubility	340 g/L
pH	6-8

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: reducing agents. Product will melt over 48.1 C

STABILITY: product is stable

POLYMERIZATION: will not occur

INCOMPATIBLE MATERIALS: reducing compounds may result in noxious hydrogen sulfide production

HAZARDOUS DECOMPOSITION PRODUCTS: may produce hydrogen sulfide in presence of reducing agents, and sulfur oxides at elevated temperatures.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

A: General Product Information

Acute exposure may cause mild skin and eye irritation. Gastrointestinal absorption may cause acute magnesium poisoning. Symptoms include flushing, sweating, low blood pressure, depression of reflexes, flaccid paralysis, hypothermia, circulatory collapse, and depression of CNS and heart function. Excessive long-term ingestion of this product may cause also cause magnesium poisoning with symptoms described above.

B: Component Analysis - LD50/LC50

No information available.

B: Component Analysis - TDLo/LDLo

TDLo (Oral-Man) 183 mg/kg/4 hours-intermittent: Gastrointestinal: hypermotility, diarrhea;

LDLo (Intraduodenal-Woman) 5344 mg/kg

Carcinogenicity

A: General Product Information

No information available.

B: Component Carcinogenicity

Product is not listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

No information available.

Neurotoxicity

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Environmental Fate

No potential for food chain concentration

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material is not considered hazardous, but consult with local, state and federal agencies prior to disposal to ensure all applicable laws are met.

14. TRANSPORT INFORMATION

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

US DOT Information

Shipping Name: Not Regulated

Hazard Class: Not Classified

UN/NA #: Not Regulated

Packing Group: None

Required Label(s): None

50th Edition International Air Transport Association (IATA):

Not Regulated

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

Material is not regulated under IMDG

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III

SECTION 311 Hazard for Immediate health Hazard

SECTION 312 No Threshold Quantity

SECTION 313 Not listed

CERCLA NOT REGULATED UNDER CERCLA

TSCA NOT REGULATED UNDER TSCA

CANADA (WHIMS): NOT REGULATED

16. OTHER INFORMATION

HMIS:

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	E

E: Safety Glasses, gloves and dusk mask