


RTB-1/BAC-9

Redox Tech, LLC

SAFETY DATA SHEET

Section 1: Identification	
Product Name:	RTB-1/BAC-9 aka SDC-9
Chemical Description:	Non-toxic, naturally occurring, non-pathogenic, non-genetically altered anaerobic microbes in a water-based medium
Manufacturer:	Aptim 17 Princess Road Lawrenceville, NJ 08648 609-895-5340
Recommended Use:	Groundwater bioremediation (environmental applications)
Restricted Use:	Not for human consumption.

Section 2: Hazard(s) Identification	
Hazard Classification:	Irritant (skin and eye)
Signal Word:	Warning
Hazard Statement(s):	Potential eye and skin irritant in hypersensitive humans.
Pictograms:	
Precautionary Statement(s):	Not for human consumption. Avoid contact with eyes and skin. Wear protective gloves and eye protection.

Section 3: Composition/Information on Ingredients		
Common Name(s)	CAS NO.	% by Weight
Microbial consortium in water (comprised of microorganism of the genera <i>Dehalococcoides</i>)	N/A	100

Section 4: First-Aid Measures	
Routes of Exposure	Emergency First-Aid Procedures
Inhalation	Get medical attention if allergic symptoms develop.
Eye Contact	Flush eyes with plenty of water for at least 15 minutes.. Get medical attention if irritation occurs.
Skin Contact	N/A
Ingestion	Thoroughly rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

Section 5: Fire-Fighting Measures	
Extinguishing Media:	CO ₂ , foam, dry chemical

Special Fire Fighting Procedures:	None
Fire Hazard(s):	None

Section 6: Accidental Release Measures

Personal Precautions:	Avoid contact with skin or eyes.
Emergency Procedures:	N/A
Methods & Materials used for Containment:	Compatible granular absorbent
Cleanup Procedures:	Spread compatible granular absorbent over spill area and sweep using broom and pan; dispose in appropriate receptacle. Clean area with water.

Section 7: Handling and Storage

Safe Handling & Storage:	Use personal protective equipment recommended in Section 8. Keep containers tightly closed in a cool, well-ventilated area. The DHC microbial consortium can be supplied in stainless steel kegs designed for maximum working pressure of 130 psi and equipped with pressure relief valves. The kegs are pressurized with Nitrogen up 15 psi. Do not exceed pressure of 15 psi during transfer of DHC microbial consortium from kegs. Do not open keg if content of the keg is under pressure.
Other Precautions:	BAC-9 may be stored for up to 3 weeks at a temperature range of 2-4°C without aeration. Avoid freezing.

Section 8: Exposure Controls/Personal Protection

Exposure Limits

OSHA PEL:	NE	
ACGIH TLV:	NE	
NIOSH REL:	NE	

Personal Protective Measures

Respiratory Protection:	Not normally required. N95 respirator if aerosols might be generated.
Hand Protection:	Protective gloves are recommended.
Eye Protection:	Recommended. An eyewash station in the work area is recommended.
Engineering Measures:	Local exhaust ventilation if aerosols are generated
Hygiene Measures:	Wash promptly with soap & water following skin contact.
Other Protection:	Wear appropriate clothing to prevent skin contact.

Section 9: Physical and Chemical Properties			
Appearance:	Light greenish murky liquid	Explosive Limits:	N/A
Odor:	Musty	Vapor Pressure:	24 mm Hg
Odor Threshold:	N/A	Vapor Density:	N/A
pH:	6.0-8.0	Relative Density:	0.9-1.1
Melting Point/Freezing Point:	0°C	Solubility:	Soluble
Boiling Point:	100°C	Partition coefficient:	NE
Flash Point:	N/A	Auto-ignition Temperature:	N/A
Evaporation Rate:	0.9-1.1	Decomposition Temperature:	N/A
Flammability (solid, gas):	N/A	Viscosity:	NE

Section 10: Stability and Reactivity	
Stability:	Stable
Incompatibility:	Water-reactive materials
Hazardous Decomposition Products:	None
Hazardous Reactions/Polymerization:	None
Conditions to Avoid:	None

Section 11: Toxicological Information	
Routes of Exposure:	Ingestion, Eye Contact
Signs and Symptoms of Exposure:	Ingestion of large quantities may result in abdominal discomfort including nausea, vomiting, cramps, diarrhea, and fever. Skin may become irritated upon prolonged contact. Hypersensitive individuals may experience allergic reactions. May cause eye irritation unless immediately rinsed.
Health Hazards	
Acute:	Irritation of the skin or eyes. Ingestion may result in abdominal discomfort.
Chronic:	None
Carcinogenicity	
NTP:	No
IARC:	No
OSHA:	No

Section 12: Ecological Information (non-mandatory)	
Ecotoxicity:	this material will degrade in the environment

Section 13: Disposal Considerations (non-mandatory)

Waste Disposal Methods:	Dispose of according to Federal and local regulations for non-hazardous waste. Recycle, if practical.
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Section 14: Transport Information (non-mandatory)

The product is not covered by international regulation on the transport of dangerous goods.

No transport warning required.

Section 15: Regulatory Information (non-mandatory)

N/A

Section 16: Other Information

Date of Preparation:	15 August 2014
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Last Modified Date:	11 April 2023
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