

Safety Data Sheet

SDS

May be used to comply with
OSHA's Hazard
Communication Standard,
29 CFR 1910 1200.
Standard must be consulted
for specific requirements.

Chemical Name:
Accell® SBR – Soil Bio Remediation

Date of Preparation: December 10, 2013

Revision # 4

Section 1 – Chemical Product and Company Information

Product / Chemical Name: Accell® SBR – Soil Bio Remediation
Manufacturer's Name: Advanced BioCatalytics Corporation
Address: 18010 Skypark Circle, #130, Irvine, CA 92614
Chemical Formulation: Proprietary Mixture
CAS Number: Mixture
Synonyms: N/A
Derivation: N/A
General Use: This product is concentrated and made so it can be diluted.
Emergency Telephone Number: Phone: 888-222-2420

Section 2 – Hazard(s) Identification

Precautionary statement(s): May cause mild skin and eye irritation.
Primary Entry Routes: Eye contact. Skin contact. Inhalation. Ingestion.
Target Organs:
Inhalation: May cause mild irritation to nose, throat, and respiratory tract.
Eyes: May cause mild eye irritation.
Skin: May cause mild skin irritation.
Ingestion: May cause gastrointestinal irritation with nausea and diarrhea.
Carcinogenicity: None.
Medical Conditions Aggravated by Long-Term Exposure: None known.
Chronic Effects: None known.
Skin: Allergic reaction – Dermatitis.
Ingestion: May cause gastrointestinal irritation with nausea and diarrhea. Repeated ingestion may affect liver, kidneys, and metabolism (weight loss).
Humans/Animals: May affect genetic material. Animal tests show reproductive effects. No human data found at this point.
Hazard Classification: Mild skin irritation, category 3. Signal word: warning

Section 3 – Composition / Information on Ingredients

Hazardous Chemicals	Chemical Names	Synonym	CAS #	Weight %	LD50 Oral Rat	LD50 Dermal Rabbit	LC50 Inhalation Rat
Ethanolamine 85%	2-Aminoethanol	Monoethanolamine	141-43-5	<1%	2020 mg/kg	1180 mg/kg	1420 ppm

See Section 8 for exposure limits.

Section 4 – First Aid Measures

Inhalation: Move to fresh air.
Eye Contact: Rinse with water. If irritation persists seek medical attention.
Skin Contact: Rinse with water. If irritation persists seek medical attention.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, seek a physician immediately.

Section 5 – Fire Fighting Measures				
Suitable Extinguishing Media:		Dry chemical, water spray, foam or carbon dioxide.		
Specific Hazards:		When heated to decomposition it emits acrid smoke and irritating fumes.		
Unusual Hazards:		None known.		
Specific Methods:		No special methods required.		
Special Protective Equipment for Firefighters:		As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.		
Section 6 – Accidental Release Measurements				
Personal Precautions:		See Section 8.		
Environmental Precautions and Clean-Up Methods:		Use appropriate containment to avoid environmental contamination. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use a water rinse for final clean-up.		
Section 7 – Handling and Storage				
Handling Precautions:		Avoid unnecessary long term contact with skin, eyes and clothing. Do not taste or swallow. Use with adequate ventilation. Avoid unnecessary long term breathing mists or vapors. Remove and wash contaminated clothing and footwear before reuse if corporate Health and Safety Regulations require. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.		
Storage Requirements:		Keep container(s) stored in cool, well-ventilated area. Keep container tightly closed until ready for use. Avoid possible sources of ignition (spark or flame).		
Section 8 – Exposure Controls / Personal Protection				
Exposure Limits:				
- Ethanolamine:		OSHA/ACGIH	Time weighted 8 hr.	
		PEL/TLV 3 ppm		
		STEL 6 ppm	Time weighted 15 minutes	
Engineering Measures to Reduce Exposure:		Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.		
Eye Protection:		If required by corporate health and safety, wear splash goggles.		
Hand Protection:		If required by corporate health and safety, wear rubber or latex gloves.		
Hygiene Measures:		Handle in accordance with good industrial hygiene and safety practice.		
Section 9 – Physical and Chemical Properties				
Physical State:		Liquid	Percent volatile (volume):	65-75%
pH:		7.5 – 8.5	Vapor pressure:	Same as water.
Appearance:		Aqueous solution	Vapor Density:	Not determined.
Color:		Clear Amber	Evaporation Rate:	Same as water.
Odor:		Aromatic (slight)	Boiling Point / Range:	>100°C (212°F)
Taste:		Sharp burning	Freezing Point / Range:	<0°C (32°F)
Specific Gravity:		1.05 – 1.07	Decomposition Temperature:	Not determined.
Density:		8.68 lbs/gal	Autoignition Temperature:	Not determined.
Flash Point:		> 93°C (> 200°F)	Water/Oil Dist. Coefficient:	Not determined.
Solubility:		Soluble.	Flammability:	Not determined.
Section 10 – Stability and Reactivity				
Stability:		Product is indefinitely stable in sealed containers.		
Polymerization:		Hazardous Polymerization does not occur.		
Hazardous Decomposition Materials:		None reasonably foreseeable.		
Stabilizers:		Sodium Xylene Sulfonate 40% effectively keeps mixture homogeneous.		
Physical Appearance:		Safety issues will not arise if product’s physical appearance changes.		
Conditions to Avoid:		Storage in elevated temperatures or direct sunlight for prolonged periods. Do NOT freeze.		
Materials to Avoid:		Strong acids, bases, oxidative agents (such as bleach), quaternary, and other disinfectants.		
Section 11 – Toxicological Information				
Routes of Entry:		Absorbed through skin. Eye contact.		
Acute Toxicity:		Oral LD50 estimated to be >2000mg/kg (Rat). Dermal LD50 estimated to be >2000mg/kg (Rabbit).		
Component Information:		See Section 3.		

Chronic Toxicity:	Not considered toxic after prolonged exposure.
– Ingestion:	May cause gastrointestinal irritation with nausea and diarrhea.
Potentially harmful chemical/carcinogen:	Not listed in National Toxicology Program (NTP) Report on Carcinogens and not found to be potential carcinogen in International Agency for Research on Cancer (IARC) Monographs or by OSHA.
Special Remarks on Chronic Effects on Humans: No human data found at this point.	
Section 12 – Ecological Information	
Environmental Information:	No data available.
Section 13 – Disposal Considerations	
Waste Disposal:	Waste must be disposed of in accordance with federal, state and local environment control regulations. Do not reuse empty container.
Section 14 – Transport Information	
DOT/TDG:	Please refer to the Bill of Lading/receiving documents for up to date shipping information.
UN number:	None assigned.
UN proper shipping name:	None assigned.
Transport hazard class(es):	Not considered as a hazardous material or dangerous goods. No transport hazard class assigned or needed.
Packing group number:	No packing group assigned.
Environmental hazards:	No known environmental hazards.
Guidance on transport in bulk:	Transport in bulk according to Annex II of MARPOL 73/78 and the International Bulk Chemical Code (IBC code).
Special precautions for user(s):	No known precautions for transport. It is advised to avoid freezing product.
Section 15 – Regulatory Information	
United States	
United States Inventory:	All components are listed or exempted.
California Prop. 65:	The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.
Chemical Name	CAS Number
None	None
HMIS (USA)	
Health Hazard:	1
Fire Hazard:	0
Reactivity:	0
Personal Protection:	Gloves and protective eyewear recommended
National Fire Protection Association (USA):	
Health Hazard:	1
Fire Hazard:	0
Reactivity:	0
Personal Equipment:	Gloves and protective eyewear recommended
Section 16 – Other Information	
Additional Advice: None of the ingredients are listed as ozone depleting substances.	
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