

**1. PRODUCT AND COMPANY IDENTIFICATION**Product Identifier

**Product Name:** ENCAP Probiotic Biosurfactant Carpet & Rug Cleaner  
**Product Code:** ZB/EC/xxxx (xxxx signifies container size)  
**Other means of identification:** None

Recommended use of the chemical and restrictions on use

**Recommended Use:** Cleaning agent  
**Uses advised against:** Use only as stated on label  
**Product Dilution:** Heavy soil and spot cleaning 1:32; Normal cleaning 1:64. Follow label instructions.

Details of the supplier of the safety data sheet

**Manufactured by / Distributed by:**  
 Z BioScience Inc.  
 800 S. Ohio St.  
 Tuscola, IL 61953 USA

Telephone numbers:



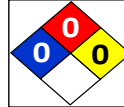
24 Hour Emergency Phone Number: INFOTRAC (800) 535-5053  
 Company Phone Number: (310) 643-1402

**2. HAZARDS IDENTIFICATION**

Appearance: Clear, slightly hazy

Physical state: Liquid

Odor: Slightly soapy

Classification	Concentrated Product	Product Diluted >1:10
Acute toxicity - Oral	Category 4	No significant hazards
Eye irritation	Category 2	Slight irritation possible
Respiratory sensitization	Category 5	No significant hazards
Skin sensitization	Category 5	No significant hazards
Label Elements	Signal Word: Warning	Signal Word: None
Hazard statements:	Harmful if concentrate is swallowed Potential skin irritant harmful if mist is inhaled	This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
	May cause eye irritation  	

**Emergency Overview - Concentrated Product****GENERAL STATEMENT: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION!****Precautionary Statements - Response:** Specific Treatment (See Section 4 in the SDS)

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**IF ON SKIN:** Wash with plenty of soap and water. Wash contaminated clothing before reuse.

**IF INHALED:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms contact a doctor/physician.

**IF SWALLOWED:** Call a Poison Center or doctor/physician if you feel unwell.

**Precautionary Statements - Disposal**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Precautionary Statements - Storage**

Keep out of reach of children.

**Hazards not otherwise classified (HNOC)**

None known.

**Other information**

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Common name and synonyms	CAS number	%*
Sodium Laureth Sulfate		9004-82-4	1-<5*
Sodium Salt		60-00-4	1 - <9*
Sodium Salt		7758-29-4	3- <18*
Other components below reportable levels			68 - < 95*

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**4. FIRST-AID MEASURES**

	<u>Concentrated Product</u>	<u>Diluted Product &gt;1:10</u>
<b>Inhalation</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a doctor/physician if you feel unwell.	Non-reactive. No First-aid needed
<b>Skin Contact</b>	Take off all contaminated clothing. Wash off with soap and water. Call physician if you feel unwell. Wash contaminated clothing before reuse.	Non-irritating. No First-aid needed
<b>Eye Contact</b>	Immediately flush eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Contact a physician immediately.	May be slightly irritating. Rinse thoroughly with plenty of water. If irritation persists contact physician.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without advice from physician or poison control center.	Non-toxic. No First-aid needed.
<b>Symptoms/effects, acute and delayed</b>	Harmful if swallowed. Causes serious eye irritation. Causes mild skin irritation.	None
<b>Special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.	None anticipated.
<b>General information</b>	Follow directions above. If you feel unwell seek medical advice. Show label and SDS to attending First-aid giver and/or physician if possible.	

**5. FIRE-FIGHTING MEASURES**

	<u>Concentrated Product</u>	<u>Diluted Product &gt;1:10</u>
<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	Does not burn.
<b>Unsuitable extinguishing media</b>	Not determined.	None
<b>Specific hazards arising from the burning of chemicals</b>	Product is not flammable or combustible.	Does not burn.
<b>Fire fighting equipment/instructions</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.	
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.	

**6. ACCIDENTAL RELEASE MEASURES**

	<u>Concentrated Product</u>	<u>Diluted Product &gt;1:10</u>
<b>Personal precautions, protective equipment and emergency procedures</b>	Wear protective clothing as described in Section 8 of this safety data sheet.	None needed. Caution floor may be slippery.
<b>Methods and materials for containment and cleaning up</b>	Sweep up and shovel into suitable containers for disposal. For waste disposal, see Section 13. of this safety data sheet.	Where possible, vacuum spilled liquid to recover material. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.
<b>Environmental precautions</b>	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12. Ecological Information.	None needed - non-toxic, non-hazardous in diluted form.

**7. HANDLING AND STORAGE**

<b>Precautions/Advice for safe handling</b>	Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when handling this product. Wear eye/face protection.	Normal ventilation is adequate. Avoid contact with eyes. Wear safety glasses.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep away from children and pets. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).	

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Occupational exposure limits**

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary alcohol	STEL: 400 ppm TWH: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>2</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>2</sup> (vacated) STEL: 500 ppm (vacated) STEL: 980 mg/m <sup>2</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>2</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>2</sup>

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s)	No exposure limits.
<b>Appropriate engineering controls</b>	Apply technical measures to comply with the occupational exposure limits. Ensure that eyewash stations and safety showers are close to a workstation location. Provide adequate ventilation.	

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields or goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations.	Safety glasses recommended
<b>Skin protection - hands/other</b>	Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.	None normally required. If allergic wear gloves and appropriate clothing/apron.
<b>Respiratory protection</b>	If TLV is exceeded, use a NIOSH/MSHA approved respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.	None normally required.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.	None needed
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.	

**9. PHYSICAL AND CHEMICAL PROPERTIES**

	<u>Concentrated Product</u>	<u>Diluted Product &gt;1:10</u>
Appearance	Clear	Clear
Physical state	Liquid	Liquid
Form	Liquid	Liquid
Color	Clear	Clear
Odor	Slight chemical odor	Slightly soapy
Odor threshold	Not determined	Not determined
pH	7.5 - 8.5	Not determined
Melting point/freezing point	Not determined	32°F (-0°C) estimated
Initial boiling point and boiling range	212 °F (100°C) estimated	212 °F (100°C) estimated
Flash point	Not determined	Not determined
Evaporation rate	Same as water	Same as water
Flammability (solid, gas)	Not determined	Not determined
Upper/lower flammability limits	Not determined	Not determined
Upper/lower explosive limits	Not determined	Not determined
Vapor pressure	Not determined	Not determined
Vapor density	Not determined	Not determined
Relative density	1.01	Not determined
Solubility(ies) in water	Not determined	Complete
Partition coefficient (in n-octanol/water)	Not determined	Not determined
Auto-ignition temperature	No information available	No information available
Decomposition temperature	No information available	No information available
Viscosity	Not determined	Not determined
Density	8.7 lbs/gal estimated	Not determined
Explosive properties	Not explosive	Not explosive
Flammability class	IIIB - non-flammable, non-combustible	Non-flammable, Non-combustible
Oxidizing properties	Not oxidizing	Non oxidizing
Percent volatile	Not determined	Not determined
Specific gravity	1.08	Not determined
VOC (weight %)	<1% estimated	Not determined

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport	None known
<b>Chemical stability</b>	Material is stable under recommended storage conditions	Stable
<b>Possibility of hazardous reactions</b>	None under normal processing	None known
<b>Conditions to avoid</b>	Keep out of reach of children.	None known
<b>Incompatible materials</b>	Strong oxidizing agents	None known
<b>Hazardous decomposition</b>	Carbon oxides.	None known

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

	<u>Concentrated Product</u>	<u>Diluted Product &gt;1:10</u>
<b>Inhalation</b>	Not classified	Not classified
<b>Skin contact</b>	Prolonged contact may cause redness and irritation.	Not harmful
<b>Eye contact</b>	May cause irritation	Slight irritation possible
<b>Ingestion</b>	Harmful if swallowed.	Not classified
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Direct contact with eyes may cause temporary irritation	Slight irritation possible

Component Information	Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
	Proprietary detergent	= 1600 mg/kg ( Rat )	-	-
	Proprietary alcohol	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( Rat ) 4 h

Information on toxicological effects	See Section 4. of this safety data sheet for symptoms.	No significant hazards
Delayed and immediate effects as well as chronic defects from short and long-term exposure		
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.	

Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary alcohol		Group 3		X

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity	Not determined
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The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 1,851.00 mg/kg

## 12. ECOLOGICAL INFORMATION

	Concentrated Product	Diluted Product >1:10
Ecotoxicity	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
Persistence and degradability	Not available	No significant hazards
Mobility in soil	Not available	No significant hazards
Other adverse effects	Not determined	Not determined

### Component Information - Concentrate Ingredients

Chemical Name	Algae/aquatic plants	Fish	Crustacean
Proprietary alcohol	1000: 96 h Desmodemus subspicatus mg/L EC50 1000: 72h Desmodesjus subspicatus mg/L EC50	1400000: 96 h Lepomis macrochirus ug/L LC50 9640: 96h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static	13299: 48 h Daphnia magna mg/L EC50
Proprietary glycol		5000: 24h Carassius auratus mg/L LC50	
Proprietary acid		5000: 96H Brachydanio rerio mg/L LC50	

Persistence - Degradability	Not determined
Bioaccumulation	Not determined
Other Adverse Effects	Not determined

Mobility	Chemical Name	Partition Coefficient
	Proprietary Alcohol	0.05
	Proprietary Acid	-1.11

## 13. DISPOSAL CONSIDERATIONS

	Concentrated Product	Diluted Product >1:10
Disposal instructions	Sweep up and shovel into suitable containers for disposal. For waste disposal, see Section 13. of this safety data sheet.	Where possible, vacuum spilled liquid to recover material. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.
Disposal regulations	Dispose in accordance with all applicable procedures and regulations, international, national and local.	

<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	Not hazardous

#### 14. TRANSPORT INFORMATION

	<u>Concentrated Product</u>	<u>Diluted Product &gt;1:10</u>
<b>DOT</b>	Not regulated as dangerous goods	
<b>IATA</b>	Not regulated as dangerous goods	
<b>IMDG</b>	Not regulated as dangerous goods	
<b>Transport in bulk according to Annex II of MARPOL 73/38 and the IBC Code</b>	Not established	
<b>Note</b>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.	

#### 15. REGULATORY INFORMATION

##### US Federal Regulations

<b>CERLA</b>	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.
<b>SARA 313</b>	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This material, as supplied, does not contain any a chemical or chemicals subject to reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
<b>CWA (Clean Water Act)</b>	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

##### 311/312 Hazard Categories

Acute health hazard	No
Chronic health hazard	No
Fire hazard	No
Reactive hazard	No
Sudden release of pressure hazard	No

##### US State Regulations

<b>California Proposition 65</b>	This product does not contain any Proposition 65 chemicals.
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##### State right to know

<b>Chemical Name</b>	New Jersey	Massachusetts	Pennsylvania
Proprietary alcohol	X	X	X

##### Other Federal Regulations

	<u>Concentrated Product</u>	<u>Diluted Product &gt;1:10</u>
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	Not regulated	
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated	
<b>Safe Drinking Water Act (SDWA)</b>	Nor regulated	

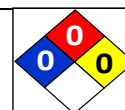
**International Inventories**

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Complies
Canada	Domestic Substances List (DSL)	Complies
Canada	Non-domestic Substances List (NDSL)	Complies
China	Inventory of Existing Chemical Substances in China (IEDSD)	Complies
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	-
Europe	European List of Notified Chemical Substances (ELINCS)	-
Japan	Inventory of Existing and New Chemical Substances (ENCS)	-
Korea	Existing Chemicals List (ECL)	-
New Zealand	New Zealand Inventory	Complies
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Complies
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	-

**16. OTHER INFORMATION**

	Concentrated Product		Diluted Product >1:10	
	HMIS® Ratings	NFPA Ratings	HMIS® Ratings	NFPA Ratings
Health	1	1	0	0
Flammability	0	0	0	0
Instability	0	0	0	0
Personal Protection	A	A	-	-

Symbol



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 Version #: 3

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Revision Information** Physical & Chemical Properties: Multiple Properties  
 Regulatory Information: United States.

**END OF SAFETY DATA SHEET**