

1. PRODUCT AND COMPANY IDENTIFICATIONProduct Identifier

Product Name: DH+ Probiotic Biosurfactant Hoof Cleaner
 Product Code: ZB/DH+/xxxx (xxxx signifies container size)
 Other means of identification: None

Recommended use of the chemical and restrictions on use

Recommended Use: Use in foot baths or spray on hooves and lower legs
 Uses advised against: Use only as stated on label
 Product Dilution: Foot Bath @ 1:60; Spray @ 1:1 to 1:10

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:

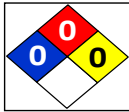
24 Hour Emergency Phone Number: INFOTRAC (800) 535-5053
 Company Phone Number: (310) 643-1402

2. HAZARDS IDENTIFICATION

Appearance: Light to dark beige color

Physical state: Liquid

Odor: Slightly minty

Classification	Concentrated Product	
Acute toxicity - Oral	No significant hazards	
Eye irritation	No significant hazards	
Respiratory sensitization	No significant hazards	
Skin sensitization	No significant hazards	
Label Elements	Signal Word: None	
Hazard statements:	This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).	
		

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: Rinse mouth and throat thoroughly with tap water. Drink water. 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

Not toxic 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name**	Common name and synonyms**	CAS number**	%**
None of the ingredients are reportable or are below reportable levels.			

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**Concentrated Product**

Inhalation	None expected but 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.	
Skin Contact	No expected issues but you may chose to take off all contaminated clothing. Wash off with soap and water. Call physician if you feel unwell. Wash contaminated clothing before reuse.	
Eye Contact	Immediately flush eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Contact a physician if irritation persists.	
Ingestion	None expected but rinse mouth. Do not induce vomiting without advice from physician or poison control center.	
Symptoms/effects, acute and delayed	None expected under normal use.	
Special treatment needed	None expected but if unwell provide general supportive measures and treat symptomatically.	
General information	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**Concentrated Product**

Suitable extinguishing media	Standard procedure for chemical fires. Foam. Water.	
Unsuitable extinguishing media	None	
Specific hazards arising from the burning of chemicals	None	
Fire fighting equipment/instructions	Though this product is not combustible, as in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	None	

6. ACCIDENTAL RELEASE MEASURES**Concentrated Product**

Personal precautions, protective equipment and emergency procedures	None necessary.	
Methods and materials for containment and cleaning up	Product may be washed into sanitary sewers.	
Environmental precautions	None necessary.	

7. HANDLING AND STORAGE

Precautions/Advice for safe handling	Normal ventilation is adequate. Avoid contact with eyes. Wear safety glasses. Follow good hygiene and wash hands after handling.	
Conditions for safe storage, including any incompatibilities	Keep away from children and pets. Store in original tightly closed container. Store in a well-ventilated place. Store out of direct sunlight.	

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

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	None known
---	------------

Biological limit values	No biological exposure limits noted for the ingredient(s)	
Appropriate engineering controls	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

Eye/face protection	Safety glasses recommended.	
----------------------------	-----------------------------	--

Skin protection - hands/other	None normally required. If allergic wear gloves and appropriate clothing/apron.	
Respiratory protection	None normally required.	
Thermal hazards	None needed	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	

9. PHYSICAL AND CHEMICAL PROPERTIES

	<u>Concentrated Product</u>
Appearance	Tinted liquid
Physical state	Liquid
Form	Liquid
Color	Light to dark beige
Odor	Slightly mint
Odor threshold	Not determined
pH	7.5 - 8.5
Melting point/freezing point	Not determined
Initial boiling point and boiling range	212 °F (100°C) estimated
Flash point	Not determined
Evaporation rate	Same as water
Flammability (solid, gas)	Not determined
Upper/lower flammability limits	Not determined
Upper/lower explosive limits	Not determined
Vapor pressure	4300 @ 20 °C
Vapor density	Not determined
Relative density	1.001
Solubility(ies) in water	Complete
Partition coefficient (in n-octanol/water)	Not determined
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	Not determined
Density	8.35 lbs/gal estimated
Explosive properties	Not explosive
Flammability class	IIIB - non-flammable, non-combustible
Oxidizing properties	Not oxidizing
Percent volatile	Not determined
Specific gravity	1.04 estimated
VOC (weight %)	0.1% estimated

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport	
Chemical stability	Material is stable under recommended storage conditions	
Possibility of hazardous reactions	None under normal processing	
Conditions to avoid	Keep out of reach of children.	
Incompatible materials	None known	
Hazardous decomposition	None known	

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

	<u>Concentrated Product</u>	
Inhalation	Not classified	
Skin contact	Not harmful	
Eye contact	Slight irritation possible	
Ingestion	Not classified	
Symptoms related to the physical, chemical and toxicological characteristics	Slight irritation possible	

Component Information	Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
	None hazardous			

Information on toxicological effects	No significant hazards		
Delayed and immediate effects as well as chronic defects from short and long-term exposure	None expected		
Carcinogenicity	None known		

12. ECOLOGICAL INFORMATION

Concentrated Product

Ecotoxicity	No significant hazards known		
Persistence and degradability	No significant hazards known		
Mobility in soil	No significant hazards known		
Other adverse effects	Not determined		

Component Information - Concentrate Ingredients

Chemical Name	Algae/aquatic plants	Fish	Crustacean
No known hazards			

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

Mobility	Not determined
----------	----------------

13. DISPOSAL CONSIDERATIONS

Concentrated Product

Disposal instructions	Rinse with water. No additional precautions necessary.	
Disposal regulations	Not hazardous but dispose in accordance with all applicable procedures and regulations, international, national and local.	
Hazardous waste code	Not hazardous.	
Waste from residues / unused products	Not hazardous but dispose in accordance with all applicable procedures and regulations, international, national and local. The container should be disposed of in a safe manner compliant with local regulations.	
Contaminated packaging	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.	

14. TRANSPORT INFORMATION

Concentrated Product

DOT	Not regulated as dangerous goods	
IATA	Not regulated as dangerous goods	
IMDG	Not regulated as dangerous goods	
Transport in bulk according to Annex II of MARPOL 73/38 and the IBC Code	Not established	
Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.	

15. REGULATORY INFORMATION

US Federal Regulations

CERLA	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.
-------	--

SARA 313	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.
CWA (Clean Water Act)	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

California Proposition 65	This product does not contain any Proposition 65 chemicals.
----------------------------------	---

State right to know	No ingredients require any state notifications.
----------------------------	---

Other Federal Regulations

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

International Inventories

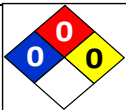
Not established

16. OTHER INFORMATION

Concentrated Product

	HMIS® Ratings	NFPA Ratings		
Health	0	0		
Flammability	0	0		
Instability	0	0		
Personal Protection	0	0		

Symbol



Prepared by: Regulatory Department
Issue date: 2/16/2016
Revision date: 5/29/2024
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