

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: AC-S Probiotic HVAC Coil Spray
 Product Code: ZB/ACS/xxxx (xxxx signifies container size)
 Other means of identification: None

Recommended use of the chemical and restrictions on use

Recommended Use: Odor reducing spray
 Uses advised against: Use only as stated on label
 Product Dilution: Ready-to-Use (do not dilute)

Details of the supplier of the safety data sheet

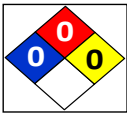
Manufactured by / Distributed by:
 Z BioScience Inc.
 800 S. Ohio St.
 Tuscola, IL 61953 USA

Telephone numbers:

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

2. HAZARDS IDENTIFICATION

Appearance: Colorless to light beige color Physical state: Liquid Odor: None

| 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

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|---------------------|-----------------------------|--|
| 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 | Clear slightly tinted |
| Physical state | Liquid |
| Form | Liquid |
| Color | Colorless to light beige |
| Odor | Slightly minty |
| 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 %) | 0.5% 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

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|---------------------------------------|---|--|
| 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

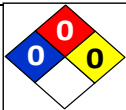
Not established

16. OTHER INFORMATION

Concentrated Product

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

Symbol



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Version #: 2

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