

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 001
Date Prepared: 01/21/98
Date Printed: 05/15/98
MSDS No: 306.0220578-006.002

BIOSPERSE 257

MICROBIOCIDIC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: BIOSPERSE 257 MICROBIOCIDIC
Product Code: 4834
General or Generic ID: MICROBIOCIDIC

Company

Ashland Chemical Co.
P.O. Box 2219
Columbus, OH 43216
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)
24 hours everyday

Regulatory Information Number:
1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
TRIS (HYDROXYMETHYL) NITROMETHANE	126-11-4	
FORMALDEHYDE	50-00-0	

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Unlikely to cause eye irritation or injury.

Skin

Unlikely to cause skin irritation or injury.

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material is not likely to be harmful.

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea).

Target Organ Effects

No data

Developmental Information

No data

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Cancer Information

Inhalation exposure of formaldehyde has been shown to cause nasal tumors in rats, and ingestion of formaldehyde in drinking water has been shown to cause leukemia and gastrointestinal tract tumors in rats. Epidemiology studies have not clearly associated exposure to formaldehyde with cancer in man. Formaldehyde is listed as a carcinogen by IARC, NTP, and OSHA.

Other Health Effects

No data

Primary Route(s) of Entry

No data

4. FIRST AID MEASURES**Eyes**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians

No data

5. FIRE FIGHTING MEASURES**Flash Point**

Not applicable

Explosive Limit

Not applicable

Autoignition Temperature

No data

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Hazardous Products of Combustion

May form: formaldehyde.

Fire and Explosion Hazards

No data

Extinguishing Media

alcohol foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions

Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 1, Flammability - 0, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a warm area; crystallization point, approximately 0 degrees F. Frozen drums should be placed in a warm place and agitated frequently in order to hasten thawing. For thawing, warm water or steam may be used, but care must be taken to prevent damage to the polyethylene liner which can result from localized overheating.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Not required under normal conditions of use.

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Skin Protection

Wear resistant gloves such as: natural rubber.

Respiratory Protections

If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Exposure Guidelines

Component

TRIS(HYDROXYMETHYL)NITROMETHANE (126-11-4)
No exposure limits established

FORMALDEHYDE (50-00-0)
OSHA VPEL 0.750 ppm - TWA
OSHA VPEL 2.000 ppm - STEL
ACGIH TLV 0.300 ppm - Ceiling

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for component) 212.0 F (100.0 C) @ 760 mmHg

Vapor Pressure

(for component) 17.500 mmHg @ 68.00 F

Specific Vapor Density

Not applicable

Specific Gravity

1.107 @ 77.00 F

Liquid Density

9.210 lbs/gal @ 77.00 F
1.107 kg/l @ 25.00 C

Percent Volatiles

70.0 - 85.0 %

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

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State

LIQUID

Physical Form

No data

Color

COLORLESS TO PALE YELLOW

Odor

No data

pH

2.5 - 5.0

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: formaldehyde, Releases formaldehyde at alkaline pH..

Chemical Stability

Stable.

Incompatibility

Avoid contact with: amines, excessive heat, strong bases.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

NON-REGULATED BY D.O.T.

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BIOSPERSE 257 MICROBIOCIDICIDE

Container/Mode:
55 GAL DRUM/TRUCK PACKAGE

NOS Component:
None

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

18265 FORMALDEHYDE

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

Component	RQ (lbs)
FORMALDEHYDE	100

CERCLA RQ - 40 CFR 302.4(b)

Materials without a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5 (b).

SARA 302 Components - 40 CFR 355 Appendix A

Section 302 Component(s)	TPQ (lbs)	RQ (lbs)
FORMALDEHYDE	500	100

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate() Delayed(X) Fire() Reactive() Sudden Release of Pressure()

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s)	CAS Number	%
FORMALDEHYDE	50-00-0	.54

International Regulations

Inventory Status

Not determined

State and Local Regulations

California Proposition 65

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.
FORMALDEHYDE (GAS)

New Jersey RTK Label Information

FORMALDEHYDE 50-00-0

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16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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