

2567

ASHLAND
SAFETY DATA SHEET

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Revision Date: 01/26/2008
Print Date: 7/2/2008
MSDS Number: R0399326
Version: 1.1

BIOSPERSE® 550 MICROBIOCIDE
67242

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone	1-800-ASHLAND (1-800-274-5263)

Product name	BIOSPERSE® 550 MICROBIOCIDE
Product code	67242
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, Colorless to yellow

Potential Health Effects

Routes of exposure

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin contact

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects) Passage of this material into the body through the skin is possible, and skin contact may be harmful.

Ingestion

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the

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mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation

Breathing of vapor or mist is possible. Breathing this material may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: respiratory tract, skin, lung (for example, asthma-like conditions)

Symptoms

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), irritation (nose, throat, airways), cough, headache, damage to the mouth, throat, and/or airways. Exposure to this product (or a component) may cause an allergic reaction (narrowing of the air passages of the lungs resulting in difficult breathing, tightness in the chest, coughing and wheezing) in some sensitive individuals. Other symptoms of an allergic reaction may include itchy and watery eyes, runny and stuffy nose, sweating, flushing, hives, rapid heart rate, and lowered blood pressure.

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: respiratory tract damage (nose, throat, and airways)

Carcinogenicity

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Several animal studies have shown that glutaraldehyde is not harmful to the fetus at exposure levels that do not cause serious harm to the pregnant animal.

Other information

This material (or a component) has been both positive and negative in tests for mutagenicity. The relevance of this finding to human health is uncertain.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
GLUTARALDEHYDE	111-30-8	50%

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

Ingestion

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to physician

Hazards: No information available.

Treatment: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

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Suitable extinguishing media

Alcohol-resistant foam, Agents approved for class B hazards or water fog,
Carbon dioxide (CO₂), Dry chemical

Hazardous combustion products

May form:, Carbon dioxide (CO₂), Carbon monoxide

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection
(SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No data

Environmental precautions

No data

Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing protective equipment should be excluded from the area of spill until clean-up has been completed. Decontaminate spilled material by careful application of aqueous ammonium hydroxide or sodium bisulfite solution. Considerable heat and fumes can be liberated by the decontamination reaction.

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

Product solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -17 degrees C (1.4 degrees F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For

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short storage times (up to about one month), temperatures of up to 100 degrees F can be tolerated, but the preferred maximum storage temperature is about 80 degrees F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

GLUTARALDEHYDE		111-30-8
ACGIH	Ceiling Limit Value:	0.05 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.2 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.8 mg/m3

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Eye protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Skin and body protection

To prevent skin contact, wear impervious clothing and boots.

Wear resistant gloves such as:

Nitrile rubber

Polyethylene

butyl-rubber

Wear resistant gloves such as:

Natural Rubber

Nitrile rubber

Polyethylene

butyl-rubber

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Respiratory protection

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	Colorless to yellow
Odour	Characteristic pungent odor
Boiling point/boilingrange	212.00 °F / 212.0 °F @ 760.00 mmHg
pH	3.7
Flash point	211.98 °F / 99.99 °C
Evaporation rate	< 1.00 (Ethyl Ether)
Explosion limits	No data
Vapour pressure	17.50 mmHg
Vapour density	No data
Density	1.130 g/cm ³ @ 68.00 °F / 20.00 °C 9.400 lb/gal @ 68.00 °F / 20.00 °C
Solubility	soluble in water
Partition coefficient: n-octanol/water	No data
Autoignition temperature	437.0 °F / 225.0 °C

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Incompatible products

Avoid contact with: strong acids, strong alkalis

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Hazardous decomposition products

May form: Carbon dioxide (CO₂), Carbon monoxide

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

GLUTARALDEHYDE

LD 50 Rat: 134 mg/kg

Acute inhalation toxicity

GLUTARALDEHYDE

LC 50 Rat: 480 mg/m³, 4 h

Acute dermal toxicity

GLUTARALDEHYDE

LD 50 Rabbit: 2,560 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

96 h LC 50 Ide, silver or golden orfe (Leuciscus idus), static test: 10 - 100 mg/l

Acute Toxicity to Aquatic Invertebrates

48 h EC 50 Water flea (Daphnia magna), static test: 10 - 100 mg/l

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Environmental fate and pathways

BOD5: 235 mg/g

COD: 1,385 mg/g

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed, by storage or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire. Do not reuse container. Rinse thoroughly before discarding in trash. Triple rinse (or equivalent) then offer drum for recycling or reconditioning, or puncture. Dispose of drum in a sanitary landfill, or by incineration, if allowed by state and local authorities. If burned, stay out of smoke. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

IMDG:

UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(GLUTARALDEHYDE,) 8, II

IATA_P:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (GLUTARALDEHYDE,) 8, II

IATA_C:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (GLUTARALDEHYDE,) 8, II

CFR ROAD:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (GLUTARALDEHYDE,) 8, II

CFR RAIL:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (GLUTARALDEHYDE,) 8, II

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CFR_INWTR:

UN3265, Corrosive liquid, acidic, organic, n.o.s. (GLUTARALDEHYDE,) 8, II

Dangerous goods descriptions (if indicated above) may not reflect package size, quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

SARA Hazard Classification Acute Health Hazard

SARA 313 Component(s)

	Health	Flammability	Reactivity	Other
HMIS				No data
NFPA	3	1	0	

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. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).