SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Revised: 03/21/2003

PRODUCT NAME: MICROBAN LIQUID FORMULATION 9200-200
PRODUCT DESCRIPTION: MICROBAN LIQUID FORMULATION 9200-200
CASRN:
MANUFACTURER:

Este Avenue
Cincinnati,OH 45232
Phone: 800-634-2436 Fax: 513-482-5510

EMERGENCY NUMBERS:
CHEMTREC: 800-424-9300

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL	CONCENTRATION(Wt.%)	EXPOSURE LIMITS
Proprietary Blend		

SECTION 3: HAZARDS IDENTIFICATION

********** Emergency **********
********** Overview **********

WARNING!
Irritating to eyes, respiratory system and skin.

Clear to pale yellow liquid
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SKIN CONTACT:
Contact with the skin causes irritation.

EYE CONTACT:
Causes irritation.

INHALATION:
Irritating to respiratory system.

INGESTION:
Harmful if swallowed.

CHRONIC EFFECTS:
Chronic overexposure may cause kidney and/or liver damage.

OTHER HEALTH EFFECTS:

PRIMARY ROUTES OF EXPOSURE: Inhalation, Skin, Oral

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
May aggravate preexisting medical conditions.

ENVIRONMENTAL HAZARDS:
None available. This product is expected to be toxic to aquatic organisms.

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. Discard footwear that has been contaminated on the inner surfaces. If irritation should develop, get medical attention.

EYE CONTACT:
Immediately flush with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Get medical attention immediately.

INHALATION:
Harmful if inhaled. Remove to fresh air. Seek immediate medical attention.

INGESTION:
DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >212 Deg F (Pensky-Martens Closed Cup)
LFL: Not Determined UFL: Not Determined
AUTOIGNITION TEMPERATURE Not Determined

RECOMMENDED EXTINGUISHING MEDIA:
Foam, Water fog

SPECIAL FIRE FIGHTING PROCEDURES:
Perform only those fire fighting procedures for which you have been trained. Firefighters should wear self contained breathing apparatus in the positive pressure mode with a full facepiece when there is a possibility of exposure to smoke, fumes or hazardous decomposition

products.

UNUSUAL FIRE OR EXPLOSION HAZARDS:
None Known

HAZARDOUS COMBUSTION PRODUCTS:
Decomposition produces oxides of carbon, nitrogen and hydrochloric acid

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SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO TAKE IN CASE OF SPILL OR LEAK:
Add dry material to absorb spill (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

ENVIRONMENTAL IMPACT:
This product may be harmful to aquatic life. Do not discharge effluent containing this product in any manner without guidance from your State Water Board or the Regional Office of The EPA.

SECTION 7: HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. Avoid breathing mist, vapour or dust. Keep container closed. Use with adaquate ventilation. Wash thoroughly after handling.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:
Tight fitting chemical safety goggles.

SKIN PROTECTION:
Wear appropriate chemical resistant gloves.

RESPIRATORY PROTECTION:
None required under normal conditions of use. NIOSH/OSHA-approved respirator if necessary. Follow manufacturer's recommendations.

ENGINEERING CONTROLS:
None required under normal conditions of use. NIOSH/OSHA-approved respirator if necessary. Follow manufacturer's recommendations.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE: Clear to pale yellow liquid

ODOR: Slight
ODOR THRESHOLD: Not Available
pH: 5.1 @ 5 %
MELTING POINT: Not Determined
BOILING POINT: ~258 Deg C
SPECIFIC GRAVITY: 1.1
SOLUBILITY IN WATER: Moderate - (1 to 10 %)
PERCENT VOLATILES(by Wt.): Not Determined
VAPOR DENSITY: Heavier than Air
VAPOR PRESSURE: Not Determined
EVAPORATION RATE(N-BUTYL ACETATE=1): Not determined
VOC CONTENT(EPA Method 24): Not Determined

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Normally Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLE MATERIALS:
Strong acids, bases and oxidizing agents.

CONDITIONS TO AVOID:
Not Determined or None Known

HAZARDOUS DECOMPOSITION PRODUCTS:
Decomposition produces oxides of carbon, nitrogen and hydrochloric acid

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SECTION 11: TOXICOLOGICAL INFORMATION

No toxicity information available or testing conducted on this product. Any health or toxicological information included in Section 3 was based on data associated with the components or an analogous product.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL TOXICITY:
This product may be harmful to aquatic life. Do not discharge effluent containing this product in any manner without guidance from your State Water Board or the Regional Office of The EPA.

ENVIRONMENTAL FATE:
Environmental fate has not been evaluated for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of product by incineration at an approved hazardous chemical waste facility (or by other approved methods) in accordance with applicable Federal, State and local regulations. Avoid landfilling liquids. Since emptied container retains product residues (vapor and liquid) all labeled hazard precautions must be observed.

SECTION 14: TRANSPORTATION INFORMATION

INSECTICIDES, FUNGICIDES, INSECT/ANIMAL
REPELLENTS, NOI
NMFC: 102120

The information provided is for domestic highway transportation only. This product may be regulated differently when shipped in other types of containers or by modes other than that addressed by this section of the MSDS. For information, please contact Regulatory Affairs at 513/482-5022.

For RQ applicability, please see Section XV.

SECTION 15: REGULATORY INFORMATION

TSCA INVENTORY STATUS:
This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.

TSCA 12(b) COMPONENTS:
None

SARA 311/312 HAZARD CATEGORIES: Acute

SARA 313 TOXIC CHEMICALS:
None

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES:
Ethylene Oxide(75-21-8) < 0.0011 %
Formaldehyde(50-00-0) < 0.0005 %

CERCLA HAZARDOUS SUBSTANCES:
Ethylene Oxide(75-21-8) < 0.0011 %
Acetaldehyde(75-07-0) < 0.0007 %
1,4-Dioxane(123-91-1) < 0.0006 %
Formaldehyde(50-00-0) < 0.0005 %

CALIFORNIA PROPOSITION 65 COMPONENTS:
WARNING ! This product contains a chemical (or chemicals) known to the State of California to cause cancer, birth defects and/or other reproductive harm.
Ethylene Oxide(75-21-8) < 0.0011 %

Acetaldehyde(75-07-0)	< 0.0007 %
1,4-Dioxane(123-91-1)	< 0.0006 %
Formaldehyde(50-00-0)	< 0.0005 %

SECTION 16: OTHER INFORMATION

HMIS RATINGS: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

NFPA RATINGS: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 OTHER: None

THE FOLLOWING WARNING INFORMATION IS PROVIDED ON THE LABEL FOR THIS PRODUCT:

WARNING!
Irritating to eyes, respiratory system and skin.
FIRST AID - INHALATION:
Harmful if inhaled. Remove to fresh air. Seek immediate medical attention.
FIRST AID - SKIN CONTACT:
Wash thoroughly with soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. Discard footwear that has been contaminated on the inner surfaces. If irritation should develop, get medical attention.
FIRST AID - EYE CONTACT:
Immediately flush with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Get medical attention immediately.
FIRST AID - INGESTION:
DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.
HANDLING AND STORAGE:
Avoid contact with eyes, skin and clothing. Avoid breathing mist, vapour or dust. Keep container closed. Use with adaquate ventilation. Wash thoroughly after handling.

ABBREVIATIONS USED:

ND or N/D = Not Determined
NA or N/A = Not Applicable or Not Available
NE or N/E = Not Established
N/AP = Not Applicable

All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied, is made by Cognis

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PREPARED BY:
Corporation
Product Safety/Regulatory Affairs
Este Ave.
Cincinnati, Ohio 45232