

MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/19/2012 DATE PRINTED: 04/19/2012 REVISION NUMBER:

PREPARED BY:

EH&S DEPARTMENT

CHEMICAL PRODUCT

PRODUCT NAME:

ML-27 Microbiocide

PRODUCT CODE:

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health:

3/3

Fire:

0/0

Reactivity:

0/0

Special/Protective Equipment:

CORR/C

NAME OF THE

Rochester Midland Corporation

Emergency Phone:

MANUFACTURER:

155 Paragon Drive

Rochester, New York 14624

INFOTRAC: 1-800-535-5053 OUTSIDE US: 1-352-323-3500

USA

HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:

Harmful if swallowed. May cause burns to mucous membranes of mouth, throat, and digestive

tract.

SKIN CONTACT:

Prolonged contact causes severe burns which may not be immediately painful or visible.

Harmful if absorbed through the skin.

INHALATION:

Causes irritation of the mouth, nose, and throat. Causes lung irritation.

EYE CONTACT: CHRONIC EFFECTS: Corrosive. Causes permanent eye damage. Repeated exposure may result in sensitization dermatitis.

EFFECTS/CARCINOGENICITY:

None listed under OSHA, IARC, or NTP.

ROUTES OF ENTRY:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELS
5-Chloro-2-Methyl-4-isothiazolin-3-one 26172-55-4	2 max.	Not applicable	Not applicable
2-Methyl-4-Isothiazolin-3-one 2682-20-4	1 max.	Not applicable	Not applicable
Magnesium nitrate 10377-60-3	1.87	Not applicable	Not applicable
Magnesium Chloride 7786-30-3	1 - 2	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION:

DO NOT INDUCE VOMITING. Drink several glasses of water or milk. Get immediate medical

attention. Never give anything by mouth to an unconcious person.

SKIN:

Flush with water for at least 15 minutes while removing all contaminated clothing and shoes.

Get medical attention if irritation or burns develop.

INHALATION:

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-

mouth. If breathing is difficult give oxygen. Get medical attention.

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FIRST AID MEASURES

EYES:

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least

15 minutes and get medical attention immediately after flushing.

NOTES TO PHYSICIAN:

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

(F): None (C): None

METHOD:

None

FLAMMABLE LIMITS IN AIR

LOWER (%): UPPER (%):

No data No data

SENSITIVITY TO MECHANICAL IMPACT(Y/N):

SENSITIVITY TO STATIC DISCHARGE:

SUITABLE EXTINGUISHING MEDIA:

Sensitivity to static discharge is not expected. As appropriate for surrounding fire-product is mostly water and will

not burn.

FIRE FIGHTING PROCEDURES:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed

containers with water spray.

ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS: LARGE SPILLS: Reclaim as much as possible. This product is toxic to fish and other aquatic organisms. Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Keep

out of drains, sewers, streams, or other bodies of water.

PERSONAL PRECAUTIONS:

ENVIRONMENTAL PRECAUTIONS:

Not applicable Not applicable

METHODS FOR CLEANING UP:

Not applicable

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN

IN HANDLING AND STORAGE:

Caution: Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Do not

contaminate water, food, or feed.

Store in a cool, dry area.

Store in a well ventilated area.

OTHER PRECAUTIONS:

Read and follow label instructions.

SPECIFIC USE(S):

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS: RESPIRATORY PROTECTION: PROTECTIVE GLOVES: EYE PROTECTION: OTHER PERSONAL PROTECTION **EQUIPMENT:**

Use in a well ventilated area.

Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely. Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact. Goggles and face shield are recommended to minimize eye contact.

Appropriate protective clothing as needed to prevent skin contact. Eyewash fountains and safety showers must be easily accessible. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.

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VENTILATION:

General mechanical and/or local exhaust as needed to meet exposure limits if mist in air.

(C) Not determined

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Clear yellow-green liquid. Mild odor.

BOILING POINT (F):

Not determined

VAPOR PRESSURE: VAPOR DENSITY (AIR=1): Not determined Not determined Not determined

SOLUBILITY IN WATER: SPECIFIC GRAVITY:

1.034

VOC Content (%): **EVAPORATION RATE:** Not determined Less than BuAc

PH:

2.0 - 4.0

10. STABILITY AND REACTIVITY

STABILITY DATA:

STABLE

POLYMERIZATION:

Will Not Occur.

HAZARDOUS DECOMPOSITION:

When heated to high temperatures, the following may be produced: Hydrogen chloride gas.

Oxides of Sulfur. Oxides of Nitrogen.

INCOMPATIBILITY (MATERIALS TO

Avoid contact with: Oxidizing materials. Reducing agents. Amines. Mercaptans.

AVOID):

CONDITIONS/HAZARDS TO AVOID:

None.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Not Established

EFFECTS OF CHRONIC EXPOSURE: Not established. OTHER TOXIC EFFECTS:

Not established.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL

No data at this time

INFORMATION:

CHEMICAL FATE INFORMATION:

No data at this time.

MOBILITY:

Not applicable.

PERSISTENCE/DEGRADABILITY:

Not applicable

BIOACCUMULATIVE POTENTIAL:

Not applicable

OTHER ADVERSE EFFECTS:

Not applicable

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:

Dispose in accordance with Federal, State and Local regulations.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

15. REGULATORY INFORMATION

ML-27 Microbiocide

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65
5-Chloro-2-Methyl-4-Isothiazolin-3- one 26172-55-4	2 max.	Not Listed	Listed	Not Listed	Not Listed
2-Methyl-4-isothiazolin-3-one 2682-20-4	1 max.	Not Listed	Listed	Not Listed	Not Listed
Magnesium nitrate 10377-60-3	1.87	Listed	Listed Listed	Listed	Not Listed
Magnesium Chloride 7786-30-3	1 - 2	Not Listed	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
5-Chloro-2-Methyl-4-isothiazolin-3- one 26172-55-4	2 max.	Not Listed	Not Listed	Not Listed
2-Methyl-4-isothiazolin-3-one 2682-20-4	1 max.	Not Listed	Not Listed	Not Listed
Magnesium nitrate 10377-60-3	1.87	Not Listed	Not Listed	Not Listed
Magnesium Chloride 7786-30-3	1-2	Not Listed	Not Listed	Not Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
Magnesium nitrate 10377-60-3	1.87	Listed

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION
CAS#

Magnesium nitrate
1.87
Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
Magnesium nitrate 10377-60-3	1.87	Listed

16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF MSDS ***

Water flea, Daphnia magna

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March 31, 2005

AQUATIC TOXICITY

ML-27

ML-27 is an Industrial Microbiocide for use in recirculating water-cooling towers, air washer systems, paper mill slime control and recirculating closed loop water-cooling systems. The active ingredients are 5-chloro-2-methyl-4-isothiazolin-3-one.

48 Hour EC50 = 10.67 mg/L

Organism	Results (ppm as product)
Rainbow Trout, Salmo gairdnerii	96 Hour LC50 = 12.67 mg/L