



# SAFETY DATA SHEET

Revision Date 07/23/2015

REVISION NUMBER: 3

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

### Product identifier

Product name ML-27 Microbiocide

### Other means of identification

Product code 119143

UN/ID No. 2922

Synonyms NONE

Registration Number(s) 527-105

### Recommended use of the chemical and restrictions on use

Recommended Use Antimicrobial solution.

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Rochester Midland Corporation  
155 Paragon Drive  
Rochester, New York 14624 USA

#### Importer

Rochester Midland Limited  
5353 John Lucas Drive  
Suite 103  
Burlington, ON L7L 6G5  
Canada

### Emergency telephone number

**EMERGENCY TELEPHONE**  
INFOTRAC: 1-800-535-5053  
OUTSIDE U.S.: +1-352-323-3500  
CANUTEC: 613-996-6666

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)  
This chemical is considered hazardous by the WHMIS 2015 Hazardous Products Regulation.

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B

### Label elements

#### **Emergency Overview**

**DANGER**

#### **Hazard statements**

Causes severe skin burns and eye damage  
May cause an allergic skin reaction  
May cause cancer

**Appearance** Clear Yellow**Physical state** Liquid**Odor** Pungent**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

No information available

**Other Information**

- Toxic to aquatic life with long lasting effects.
- Toxic to aquatic life.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION	CAS No.	%	TRADE SECRET
5-Chloro-2-Methyl-4-isothiazolin-3-one	26172-55-4	2 max.	*
Magnesium nitrate	10377-60-3	1.87	*
2-Methyl-4-isothiazolin-3-one	2682-20-4	< 1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures****General advice**

Immediately call a POISON CENTER or doctor/physician.

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<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>Skin contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** NONE.

**Sensitivity to Static Discharge** NONE.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations). DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material. See Section 13, "Disposal Considerations", for information regarding the disposal of contained materials.

**7. HANDLING AND STORAGE**

Precautions for safe handling

**Advice on safe handling**

Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Read and follow label instructions. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Do not contaminate water, food, or feed. Store in a cool, dry area. Store in a well ventilated area.

**Incompatible materials**

Avoid contact with: OXIDIZERS. Reducing agents. Amines. Mercaptans.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

**ENGINEERING CONTROLS**

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

Individual protection measures, such as personal protective equipment

**Eye/face protection**

Goggles and face shield are recommended to minimize eye contact.

**Skin and body protection**

Chemical resistant gloves are recommended to minimize skin contact. Appropriate protective clothing as needed to prevent skin contact. 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.

**RESPIRATORY PROTECTION**

Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

**Physical state**

Liquid

**Appearance**

Clear Yellow

**Odor**

Pungent

**Color**

Colorless or Yellow

**Odor threshold**

No information available

Property

Values

Remarks • Method

**pH**

2.0

(2.0 - 4.0)

**Melting point/freezing point**

No information available

<b>Boiling point / boiling range</b>	No information available	
<b>Flash point</b>	-	None to boiling.
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	
<b>Lower flammability limit:</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Specific gravity</b>	1.01 - 1.046	
<b>Water solubility</b>	No information available	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	
 <b><u>Other Information</u></b>		
<b>Softening point</b>	No information available	
<b>VOC (EPA METH.24) (G/L):</b>	No information available	
<b>Density</b>	No information available	
<b>Bulk density</b>	No information available	

## 10. STABILITY AND REACTIVITY

### **REACTIVITY**

No data available

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **CONDITIONS TO AVOID**

Extremes of temperature and direct sunlight.

### **Incompatible materials**

Avoid contact with: OXIDIZERS. Reducing agents. Amines. Mercaptans.

### **Hazardous Decomposition Products**

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

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

<b>Product Information</b>	Causes severe skin burns and eye damage.
<b>Inhalation</b>	Causes burns.
<b>Eye contact</b>	Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin contact</b>	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Causes burns.
<b>Ingestion</b>	Causes burns.

PRODUCT COMPOSITION	Oral LD50	Dermal LD50	Inhalation LC50
5-Chloro-2-Methyl-4-isothiazolin-3-one 26172-55-4	= 481 mg/kg ( Rat )	-	= 1.23 mg/L ( Rat ) 4 h
Magnesium nitrate 10377-60-3	= 5440 mg/kg ( Rat )	-	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** May cause sensitization by skin contact.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

PRODUCT COMPOSITION	ACGIH	IARC	NTP	OSHA
Magnesium nitrate 10377-60-3	-	Group 2A	-	X

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 6345 mg/kg  
**ATEmix (dermal)** 20000 mg/kg  
**ATEmix (inhalation-dust/mist)** 33.4 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

1.87% of the mixture consists of component(s) of unknown hazards to the aquatic environment

PRODUCT COMPOSITION	Algae/aquatic plants	Fish	Crustacea
5-Chloro-2-Methyl-4-isothiazolin-3-one 26172-55-4	0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	4.71: 48 h Daphnia magna mg/L EC50 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static

**Persistence and degradability**

No information available.

**Bioaccumulation**

PRODUCT COMPOSITION	Partition coefficient
5-Chloro-2-Methyl-4-isothiazolin-3-one 26172-55-4	0.75

**Other adverse effects** No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

<b>Disposal of wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Do not reuse container.

<b>14. TRANSPORT INFORMATION</b>
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**DEPT. OF TRANSPORTATION**

<b>UN/ID No.</b>	2922
<b>Proper shipping name</b>	CORROSIVE LIQUID, TOXIC, N.O.S., (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)
<b>Hazard Class</b>	8
<b>Subsidiary class</b>	6.1
<b>Packing Group</b>	II
<b>Description</b>	5 Liters (1.3 Gallons) and Less may be Classed as LTD. QTY.

**TDG**

<b>UN/ID No.</b>	2922
<b>Proper shipping name</b>	CORROSIVE LIQUID, TOXIC, N.O.S., (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)
<b>Hazard Class</b>	8
<b>Subsidiary class</b>	6.1
<b>Packing Group</b>	II
<b>Description</b>	1 Liter (0.26 Gallons) and Less may be classed as LTD. QTY.

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend:**

<b>TSCA</b>	- United States Toxic Substances Control Act Section 8(b) Inventory
<b>DSL/NDSL</b>	- Canadian Domestic Substances List/Non-Domestic Substances List
<b>EINECS/ELINCS</b>	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
<b>ENCS</b>	- Japan Existing and New Chemical Substances
<b>IECSC</b>	- China Inventory of Existing Chemical Substances
<b>KECL</b>	- Korean Existing and Evaluated Chemical Substances
<b>PICCS</b>	- Philippines Inventory of Chemicals and Chemical Substances
<b>AICS</b>	- Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<b>PRODUCT COMPOSITION</b>	<b>SARA 313 - Threshold Values %</b>
Magnesium nitrate - 10377-60-3	1.0

**SARA 311/312 Hazard Categories**

<b>ACUTE HEALTH HAZARD</b>	YES
<b>CHRONIC HEALTH HAZARD</b>	YES
<b>FIRE HAZARD</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>REACTIVE HAZARD</b>	No

**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)

**CERCLA**

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

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

<b>PRODUCT COMPOSITION</b>	<b>NJRTK:</b>	<b>MARTK:</b>	<b>PARTK:</b>
Magnesium nitrate 10377-60-3	Listed Listed	Listed	Listed

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** 527-105

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label**

**DANGER**

Corrosive.

Causes eye damage and skin burns. May cause allergic skin reaction. Harmful if inhaled. Harmful if swallowed.

This pesticide is toxic to fish and wildlife.

**16. OTHER INFORMATION**

**NFPA**

**Health hazards** 3

**Flammability** 0

**Instability** 0

**Physical and Chemical Properties** CORR

**HMIS**

**Health hazards** 3

**Flammability** 0

**Physical hazards** 0

**Personal protection** C

**Prepared By**

EH&S DEPARTMENT

**Revision Date**

07/23/2015

**Revision Note**



**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.

**\*\*\* END OF SDS \*\*\***