



# SAFETY DATA SHEET

Revision Date 01/30/2015

REVISION NUMBER: 2

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

### Product identifier

Product name ML-33

### Other means of identification

Product code 118331

Synonyms NONE

Registration Number(s) 1448-345-527

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

Recommended Use Disinfectant. Fungicide. Algicide. Molluscicide.

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

### Emergency telephone number

EMERGENCY TELEPHONE  
INFOTRAC: 1-800-535-5053  
OUTSIDE U.S.: +1-352-323-3500

## 2. HAZARDS IDENTIFICATION

### Classification

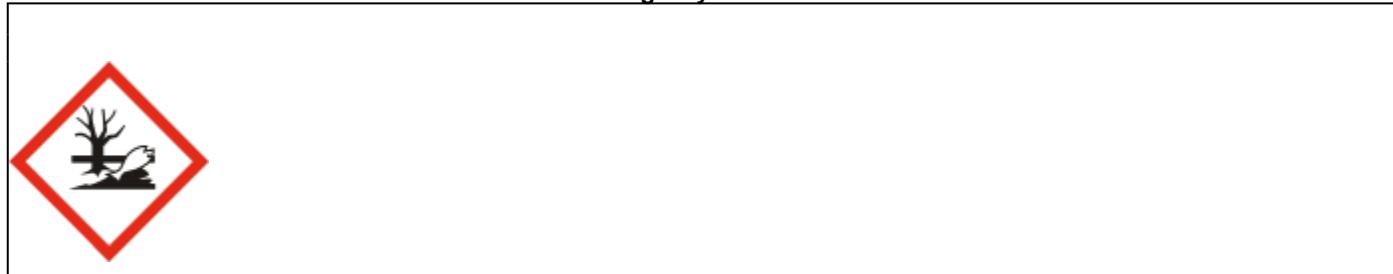
#### OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

#### Emergency Overview



The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Clear, Colorless

**Physical state** Liquid

**Odor** Odorless

### Hazards not otherwise classified (HNOC)

No information available

**Other Information**

- May be harmful if swallowed
- May be harmful in contact with skin
- Very toxic to aquatic life with long lasting effects

**Unknown Acute Toxicity**

60% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

PRODUCT COMPOSITION CAS#	CAS No.	%	TRADE SECRET
Sodium Bromide	7647-15-6	40	*

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

**4. FIRST AID MEASURES****First aid measures****General advice** No hazards which require special first aid measures.**Eye contact** IF IN EYES: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.**Skin contact** IF ON SKIN: Wash with soap and water.**Inhalation** IF INHALED: Remove to fresh air.**Ingestion** IF SWALLOWED: Clean mouth with water and drink afterwards plenty of water.**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**

Water fog, carbon dioxide, foam, dry chemical.

**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** Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection.

**Environmental precautions**

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

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

**Methods for containment** Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

**Methods for cleaning up** Reclaim as much as possible. Pick up and transfer to properly labeled containers. Flush residue with water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Strong acids, bases and oxidizing agents.

## 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** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Safety glasses are recommended to minimize eye contact.

**Skin and body protection** Chemical resistant gloves are recommended to minimize 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** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**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, Colorless

**Color**

Colorless

**Odor**

**Odor threshold**

Odorless

No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7	No information available
Melting point/freezing point		111 °C / 232 °F
Boiling point / boiling range		100 °C / 212 °F
Flash point		No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:		No information available
Lower flammability limit:		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific gravity		No information available
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Explosive properties		No information available
Oxidizing properties		No information available

#### Other Information

Softening point	No information available
VOC (EPA METH.24) (G/L):	No information available
Density	No information available
Bulk density	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

Strong acids, bases and oxidizing agents.

#### Hazardous Decomposition Products

Bromine.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

<b>Product Information</b>	May be harmful if swallowed
<b>Inhalation</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin contact</b>	May be harmful in contact with skin.

**Ingestion** May be harmful if swallowed.

PRODUCT COMPOSITION CAS#	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Bromide 7647-15-6	= 3400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-

#### Information on toxicological effects

**Symptoms** No information available.

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

<b>Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 60% of the mixture consists of ingredient(s) of unknown toxicity  
**The following values are calculated based on chapter 3.1 of the GHS document .**

ATEmix (oral) 3400 mg/kg  
 ATEmix (dermal) 2002 mg/kg

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

60% of the mixture consists of components(s) of unknown hazards to the aquatic environment

PRODUCT COMPOSITION CAS#	Algae/aquatic plants	Fish	Crustacea
Sodium Bromide 7647-15-6	5800 - 24000: 96 h Scenedesmus pannonicus mg/L EC50	15614 - 17428: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 semi-static 16000 - 24000: 96 h Poecilia reticulata mg/L LC50 flow-through 24000: 96 h Oryzias latipes mg/L LC50 semi-static 24000 - 96000: 96 h Oryzias latipes mg/L LC50 flow-through 0.054 - 0.081: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 1000: 96 h Lepomis macrochirus mg/L LC50 static 1000: 96 h Oncorhynchus mykiss mg/L LC50 static	5800 - 48000: 48 h Daphnia magna mg/L EC50 5700 - 10800: 48 h Daphnia magna mg/L EC50 Static

#### Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

#### 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.

**14. TRANSPORT INFORMATION**

<b>Proper shipping name</b>	Not Regulated by DOT
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**15. REGULATORY INFORMATION****International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Does not Comply
PICCS	Complies
AICS	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

ACUTE HEALTH HAZARD	No
CHRONIC HEALTH HAZARD	No
FIRE HAZARD	No
Sudden release of pressure hazard	No
REACTIVE HAZARD	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****U.S. EPA Label Information**

**EPA Pesticide Registration Number** 1448-345-527

**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**

CAUTION.

Causes substantial but temporary eye injury.

This product is toxic to fish and aquatic organisms.

**16. OTHER INFORMATION****NFPA**

**Health hazards** 1

**Flammability** 1

**Instability** 0

**Physical and Chemical Properties** -

**HMIS**

**Health hazards** 1

**Flammability** 1

**Physical hazards** 0

**Personal protection** B

**Revision Date** 01/30/2015

**Revision Note**

**Disclaimer**

The information provided in this Material 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 \*\*\*