

IDENTIFICATION

Product name: En-Guard

Product use: General plant growth promotion

Supplier: Metagenom Bio Inc.
550 Parkside Drive, Unit A9
Waterloo, Ontario
N2L 5V4 Canada

Emergency Phone Number: 1 844-973-4363 available 9am-5pm EST Monday to Friday

HAZARD IDENTIFICATION

This material is not a physical, health or environmental hazard. There are no known health effects caused by the bacteria contained in this product when used according to the labeled instructions.

The active ingredient in this product is naturally occurring *Pseudomonas chlororaphis* strain 63-28.

Persons who are immunocompromised should not use this product. Do not wear contact lenses while using this product. Generally personal protective equipment, gloves, and safety glasses are recommended when using this product. In the case of contact with skin or eyes, wash the product off by flushing with clean water. If irritation occurs, seek medical attention.

Potential health effects:

Eyes: Short term harmful effects are not expected. Prolonged contact may cause eye irritation.

Skin: Not likely a hazard. Prolonged contact may cause irritation. Do not expose open cuts or wounds to the product.

Inhalation: Short term harmful effects are not expected. Prolonged inhalation may lead to respiratory tract irritation.

Ingestion: Not likely a hazard. Ingestion of large quantities may be harmful.

COMPOSITION/INGREDIENT INFORMATION

Contains non-pathogenic naturally-occurring *Pseudomonas* sp. MBI-RS2 bacteria. Contains no hazardous ingredients.

FIRST AID MEASURES

Eye Contact First Aid: Flush immediately with plenty of water for at least 15 minutes while holding eyelids open to assure complete irrigation of eye and lid tissue. If irritation occurs or persists, seek

medical attention.

Skin Contact First Aid: Wash with plenty of soap and water. If irritation occurs or persists, seek medical attention. Remove contaminated clothing and launder before reuse.

Inhalation First Aid: Move the individual to fresh air. Seek medical attention if breathing difficulty develops.

Ingestion First Aid: Do not induce vomiting unless instructed to do so by qualified medical personnel. Unless advised otherwise dilute by drinking plenty of water. Seek medical attention if discomfort develops

FIRE-FIGHTING MEASURES

Flashpoint: None

Auto-ignition Temperature: Not determined

Explosive limits: LEL: not applicable UEL: not applicable

Extinguishing Media: Use media suitable for surrounding fire

Unusual Fire or Explosion hazards: None known

Fire Fighting Instructions: No special requirements

FIRE-FIGHTING MEASURES

Large Spill: Contain Spill and recover for disposal

Small Spill: Spilled liquid may cause slippery residue on hard floors. Flush spill area with water to wash away and slippery residue.

HANDLING AND STORAGE

Storage: En-Guard can be stored without alterations to its chemical/biological integrity for up to 4 weeks at room temperature, and for up to 1 year at 4°C. The product is stable at 4°C until the expiration date stated on the package. En-Guard contains live bacterial cells, which are sensible to high temperatures. Avoid exposing the product to sun, heat, drying, and freeze-thaw cycles. Do not store it with food or feed. Discard the product if the package is damaged and is leaking.

Handling: Avoid contact with eyes. Do not wear contact lenses while handling this product. Use in well ventilated areas. Wash thoroughly after handling. Avoid prolonged or repeated breathing of vapors.

Avoid prolonged or repeated contact with skin.

EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory Protection: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved respirator. Special ventilation is not required for normal handling and use of this product when following the label requirements.

Skin Protection: Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid.

Eye Protection: Use safety goggles. DO NOT WEAR CONTACT LENSES.

Note: After handling product practice general hygiene. Wash hands and face with soap and water before smoking, drinking or eating.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid-gel, slightly viscous, translucent, light brown.

Odor: no odor

pH: 7.0

Water Solubility: Soluble

Vapour Pressure: Not available

Vapour Density: Not available

Volatility: Not available

STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Oxides of Carbon

Incompatibility: Some fungicides/chemicals may be harmful to bacteria in this product. Please see product label for further information

TOXICOLOGY INFORMATION

Oral: May cause stomach irritation.

Dermal: Not expected but may cause irritation.

Inhalation: Not expected but inhalation may cause airway irritation.

Eyes: May cause eye irritation

ECOLOGICAL INFORMATION

This product contains naturally-occurring plant associated soil bacteria.

DISPOSAL CONSIDERATION

Treat unused or expired full strength product with bleach for 20 minutes. Add enough bleach to reach a final sodium hypochlorite concentration of 0.5% w/v, commonly achieved by adding 1/10th volume of 5% sodium hypochlorite bleach product. Or, use alternative bactericides. Then dispose into the sanitary sewer system, following local sewer bylaws. Empty containers should be rinsed with disinfectant, as allowed by local authorities.

TRANSPORT INFORMATION

This product is not regulated as a hazardous material for transportation within US and Canada by any means of transportation.

REGULATORY INFORMATION

The information provided in this Safety Data Sheet has been compiled in good faith and is believed to be accurate. No warranty, expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Metagenom Bio Inc. disclaims all liability for reliance thereon. It is the users' responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary to comply with all Federal, Provincial or State and Local laws and regulations.

OTHER INFORMATION

This information may not be adequate for every application. The user should satisfy themselves that they have all current data relevant to their particular use.

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