RAMPART® FUNGICIDE

SDS NUMBER: 000924-15-LPI SDS REVISIONS: FORMAT DATE OF ISSUE: 07/29/15 SUPERSEDES: 10/13/14

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME: RAMPART® FUNGICIDE

1.2 RECOMMENDED USE: FUNGICIDE FOR CONTROL OF DOWNY MILDEW AND VARIOUS OTHER DISEASES

1.3 SUPPLIER DETAILS:

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

1.4 24 Hour Emergency Phone: 1-800-424-9300 - Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Eye Irritation Category 2B H320

2.2 Label elements

None

Signal word: WARNING

Hazard Statement: H320 – Causes eye irritation.

Precautionary

Statement: P262 – Do not get in eyes, on skin, or on clothing.

P264 - Wash hands thoroughly after handling.

(Prevention): P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P102 - Keep out of reach of children.

Precautionary

Statement: P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and

easy to do - continue rinsing.

(Response): P101 – If medical advice is needed, have the product container or label at hand.

P102 – Keep out of reach of children. P103 – Read label before use.

P363 – Wash contaminated clothing before reuse.

Precautionary

Statement: P401 - Store in a cool, dry place.

(Storage):

2.3 Other hazards

None known

KEEP OUT OF REACH OF CHILDREN -

Appearance and odor: Clear colorless liquid with no odor.

Potential Health effects

Routes of exposure Eye contact.

Eyes Causes moderate eye irritation. Skin Harmful in contact with skin.

Inhalation Harmful if inhaled.
Ingestion Harmful if swallowed.
Target organs Eyes. Ingestion.

Signs and symptoms Causes moderate eye irritation.

Potential environmental effects This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

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3. COMPOSITION. INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Classification Concentration

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[%] 53.00

Monopotassium salts of Phosphorous acid 13977-65-6 Eye irrit. 2B; H320

Dipotassium salts of Phosphorous acid *Other ingredients 13492-26-7 n/a

47.00

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Eyes: Causes moderate eye irritation.

Oral: Harmful if swallowed.

4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565

Take container, label or product name with you when seeking medical attention.

NOTES TO PHYSICIAN: Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO₂), alcohol foam, foam,

water spray or fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: Oxides of carbon, irritating vapors or asphyxiants and other unknown materials may be formed in a

fire situation.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires

involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate

fire and deny unnecessary entry.

^{*}Ingredients not specifically listed are non-hazardous and are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)

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ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation.

Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below

the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Drift

and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Avoid contact. Stop leak if without risk. Contain the spill (wear the proper PPE) by absorbing spilled Methods for Clean-Up:

liquid with clay or other absorbent material; scoop or sweep up material and place in container. Decontaminate area by washing with soapy water solution and absorbing the water with absorbent

material. Check local, state and federal regulations for proper disposal.

Never return spills to original containers for re-use.

HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing

immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as

possible, wash thoroughly and change into clean clothing.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Store in a cool dry place. Do not contaminate water, food, or feed by storage or disposal.

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) TLVs

Components Value

No data available

U.S. Workplace Exposure Level (OSHA) PELs

Components Value

No data available

Biological limit values

ACGIH Biological Exposure Indices

Components **Specimen**

No listings

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footware.

In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment approved Respiratory Protection:

by MSHA/NIOSH with NIOSH-approved filter media. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are

unknown.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE : Liquid None.

ODOR THRESHOLD: No data available. COLOR: No data available. Clear, colorless.

pH: 6.4

MELTING POINT / FREEZING POINT: No data available

BOILING POINT: No data available FLASH POINT: >212°F (100°C). FLAMMABILILITY (solid, gas): No data available.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: No data available.

SOLUBILITY: Soluble.

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available. VISCOSITY: (kinematic): < 100 cps SPECIFIC GRAVITY (Water = 1): 1.45 g/ml

BULK DENSITY: 12.1 lbs./gal / 1.45 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available. Will not polymerize.

10.4 CONDITIONS TO AVOID

None known.

10.5 INCOMPATIBILE MATERIALS

Strong oxidizers and water reactive materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Can decompose at high temperatures and release phosphorous oxides and phosphine.

11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Ingestion. Skin contact. Inhalation.

LC₅₀ (rat): > 4.1 mg/L (4 HR)
LD₅₀ Oral (rat): > 5,000 mg/kg
LD₅₀ Dermal (rabbit): >3,000 mg/kg
Acute Toxicity Estimates: No data available
Skin Irritation (rabbit): No data available.
Eye Irritation (rabbit): Moderate irritant.

Specific Target Organ Toxicity: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

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12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

The product may be toxic to fish and aquatic invertebrates. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Information below is based on the technical ingredient 2,4-D acid.

Ecotoxicological Data

Species

Test Results

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No data available

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED BY DOT

U.S. Surface Freight Classification: INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS; NOI; OTHER THAN POISON (NMFC

102120; CLASS: 60)

15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA HMIS

Health 0 Least Health Flammability 1 Slight 0 Flammability 0 Instability 2 Moderate 0 Reactivity PPE High

4 Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N Sudden Release of Pressure N

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not listed.

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REVIEWED BY: Environmental Health and Safety

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This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Causes moderate eye irritation.

Avoid contact with eyes or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

16 OTHER INFORMATION

SDS STATUS: Format revised.

PREPARED BY: Registrations and Regulatory Affairs

EPA REG. NO.: 34704-924

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