

# SAFETY DATA SHEET

REAPER® CLEARFORM®

SDS NUMBER: 001078-17-LPI SDS REVISIONS: FORMAT DATE OF ISSUE: 07/26/17 SUPERSEDES: 01/07/14

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: EPA REGISTRATION NO. 34704-1078

TRADE NAME: REAPER® CLEARFORM®
1.2 RECOMMENDED USE: GROUP 6 INSECTICIDE

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 - Product Information: 1-888-574-2878 (LPI-CUST) 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

 Acute Toxicity - Oral
 Category 4
 H302

 Acute Toxicity - Dermal
 Category 4
 H312

 Sensitization - Skin
 Category 1
 H317

 Eye Damage/Irritation
 Category 2B
 H320

 Acute Toxicity - Inhalation
 Category 4
 H332

#### 2.2 Label elements



Signal word: WARNING

Hazard Statement: H302 – Harmful if swallowed.

H312 – Harmful in contact with skin.

H317 – May cause an allergic skin reaction.

H320 – Causes eye irritation. H332 – Harmful if inhaled.

Precautionary

Statement: P264 – Wash thoroughly after handling.

(Prevention): P270 – Do not eat, drink or smoke when using this product.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 – Contaminated work clothing must not be allowed out of the workplace.

P271 – Use only outdoors or in a well-ventilated area.

Precautionary

Statement: P301+P312 – IF SWALLOWED: Call a poison center/doctor/physician if you feel unwell.

(Response): P330 – Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P312 – Call a poison center/doctor/physician if you feel unwell.
P321 – Specific treatment (see Note to Physician on the product label).
P362 – Take off contaminated clothing and wash it before reuse.

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

easy to do. Continue rinsing.

P337+P313 – If eye irritation persists: Get medical advice/attention.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a poison center/doctor/physician if you feel unwell.

Precautionary Statement:

(Storage): Not applicable or required.

Precautionary

Statement: P501 – Dispose of contents/container in accordance with local, state and federal regulations.

(Disposal):



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# 2.3 Other hazards None known

# 3. COMPOSITION, INFORMATION ON INGREDIENTS

#### 3.1 Substances

#### 3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Concentration

| [%]
| Abamectin | 65195-56-4 and 65195-55-3 | 2.00

\*Other indredients, including | 98.00

Butylated Hydroxytoluene 128-37-0 N-Methyl-2-pyrrolidone 872-50-4

## 4. FIRST AID MEASURES

If in eyes:

#### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Do NOT give any liquid to the person. Do NOT induce

vomiting unless told to by the poison control center or doctor. **Do NoT** give anything by mouth to an unconscious person. 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 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:** Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical absorbants (e.g., activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements. In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

## 5. FIRE FIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam, water spray or fog.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: Oxides of carbon 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.

<sup>\*</sup>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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#### 6. 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** apply when weather conditions favor drift from target areas. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds if bees are visiting

the treatment area.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush

contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Remove residual contamination.

Never return spills to original containers for re-use.

#### 7. HANDLING AND STORAGE

#### 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 in a tightly closed container in a cool, dry place. Do not contaminate water, food or feed by

storage or disposal. Open dumping is prohibited.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS:

#### OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) TLVs

 Components
 Type
 Value

 Butylated Hydroxytoluene
 TWA
 2 mg/m³ IFV (Measured as Inhalable fraction and vapor)

U.S. Workplace Exposure Level (OSHA) PELs

Components Type Value

Not listed

**Biological limit values** 

**ACGIH Biological Exposure Indices** 

Components Value 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. Chemical-resistant headgear for overhead exposure.

Skin Protection: Applicators and other handlers must wear: coveralls over short-sleeved shirt and short pants. Chemical-resistant

gloves made out of barrier laminate or butyl rubber ≥ 14 mils. Chemical-resistant footwear plus socks. Chemical-

resistant apron when cleaning equipment, mixing, or loading.

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

MSHA/NIOSH TC-84A with NIOSH equipped N, R, or P class 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

ODOR: Pungent, oil-like.
ODOR THRESHOLD: No data available.
COLOR: Clear amber.
pH: 5.05 (1% w/w).

MELTING POINT / FREEZING POINT: No data available BOILING POINT: No data available No data available PLASH POINT: > 100 °C (> 212 °F). 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): 192.11 centistokes @ 20 °C | 71.78 centistokes @ 40 °C

SPECIFIC GRAVITY (Water = 1): 1.042 g/ml

DENSITY: 8.70 lbs/gal / 1.04 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**

Excessive heat and moisture.

## 10.5 INCOMPATIBILE MATERIALS

Strong acids.

# 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon and/or other asphyxiants may be formed from incomplete combustion.

## 11 TOXICOLOGICAL INFORMATION

# 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Ingestion. Inhalation. LC<sub>50</sub> (rat): >5.16 mg/L (4 HR) LD<sub>50</sub> Oral (rat): 550 mg/kg LD<sub>50</sub> Dermal (rat): >5,000 mg/kg

Skin Irritation (rabbit): Slightly irritating.
Eye Irritation (rabbit): Moderately irritating.
Specific Target Organ Toxicity: No data available

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: IARC Group 3 (Unclassifiable as to Carcinogenicity in Humans); TLV-A4 (Not Classifiable as a Human Carcinogen).

Germ Cell Mutagenicity: No data available

Acute Toxicity Estimates: No data available

Interactive Effects: None known

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12	ECOLOGICAL II	NFORMATION			
12.3	ECOTOXICITY  The product is toxic to  Ecotoxicological Dat		Species	Test Results	
	No data available				
	Do not apply directly to Do not contaminate wa	ersely affect non-target o water. ater when disposing of e ather conditions favor d	equipment wash water.		
12.3 12.4	2 PERSISTENCE AND Biodegradability: 3 BIOACCUMULATIVE Bioaccumulation: 4 MOBILITY IN SOIL No data available. 5 OTHER ADVERSE E Assessment:	No data available. E POTENTIAL No data available.			
13	DISPOSAL CON	ISIDERATIONS			
13.	Offer container for decontaminated or national recycling	isposed of on site or at or recycling or dispose ontainers is the best of	of in a sanitary landfill or by option of container disposal. Tour state and local ACRC recy	acility. Triple rinse (or equivalent), adding other procedures approved by approprine Agricultural Container Recycling Courcler visit the ACRC web page at	

# NFPA & HMIS Hazard Ratings: NFPA HMIS

2Health0Least2Health1Flammability1Slight1Flammability0Instability2Moderate0Reactivity3HighHPPE

4 Severe

**SARA Hazard Notification/Reporting** 

**REGULATORY INFORMATION** 

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

15

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

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

SARA, Title III, Section 313: N-Methyl-2pyrrolidone (CAS: 872-50-4)

RCRA Waste Code: Not listed.

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive

harms

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

Harmful if swallowed.
Causes moderate eye irritation.
Do not get in eyes or on clothing.
Harmful if inhaled or absorbed through skin.
Avoid breathing spray mist.
Avoid contact with skin.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### 16 OTHER INFORMATION

SDS STATUS: Format revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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