

# SAFETY DATA SHEET

**MAKAZE®** SDS NUMBER: 000890-16-LPI SDS REVISIONS: SEC. 2 **DATE OF ISSUE: 05/24/16 SUPERSEDES: 02/03/15** 

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

## **IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

PRODUCT IDENTIFIER: 1.1 TRADE NAME:

**MAKAZE®** 

1.2 RECOMMENDED USE: GROUP 9 HERBICIDE - LICENSED FOR ROUNDUP READY ALFALFA, COTTON, CORN, SOYBEANS,

CANOLA, FLAX COTTON, SUGARBEETS

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

## HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Acute Toxicity - Dermal Eye Damage/Irritation

Category 4 Category 2B H312 H320

### 2.2 Label elements



WARNING Signal word:

Hazard Statement: H312 - Harmful in contact with skin. H320 - Causes eye irritation.

Precautionary

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

P264 – Wash hands and face thoroughly after handling. (Prevention):

Precautionary

Statement: P302+P352: IF ON SKIN: Wash with plenty of soap and water. P331 – Call a Poison Center or doctor/physician if you feel unwell. (Response): P320 – Specific treatment (see First Aid 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.

Precautionary Statement:

P501 – Dispose of contents/container resulting from the use of this product that cannot be used or chemically (Disposal):

reprocessed in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is

cleansed, reconditioned, or destroyed.

2.3 Other hazards

None known

**MAKAZE®** 

**SUPERSEDES: 02/03/15** 

## **COMPOSITION, INFORMATION ON INGREDIENTS**

#### 3.1 Substances

#### 3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Concentration

**DATE OF ISSUE: 05/24/16** 

[%] Isopropylamine salt of Glyphosate 38641-94-0 41.00 Other ingredients Balance

# **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.

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control If on skin or clothing:

center or doctor for treatment advice.

# 4.2 Most Important Symptoms and Effects, Acute and Delayed

Harmful in contact with skin. Causes eye irritation. Symptoms:

# 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.

# FIRE FIGHTING MEASURES

# 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol foam, foam, water spray or fog. Do not use water jet as

this will spread the fire.

# 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, hazardous by-products can be released.

# 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.

MAKAZE®
DATE OF ISSUE: 05/24/16 SUPERSEDES: 02/03/15

#### 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 contaminate water when disposing of equipment washwaters or

rinsate.

### 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

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe

mists or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking

and/or smoking.

#### 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store above 10°F (-12.2°C) to keep product from crystallizing. Crystals will settle to the bottom of the container. If allowed to crystallize, place in a warm room at 68°F (20°C) for several days to redissolve and roll or shake container or recirculate in mini-bulk or bulk containers to mix well before using. Do not contaminate water, foodstuffs, feed or seed by

storage or disposal.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS:

### **OCCUPATIONAL EXPOSURE LIMITS**

U.S. Workplace Exposure Level (ACGIH) TLVs

Components Type Value

No data available.

### U.S. Workplace Exposure Level (OSHA) PELs

Components Type Value

No data available.

### **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.

Skin Protection: Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus

socks.

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

MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. 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.

Y DATA SHEET

SDS REVISIONS: SEC. 2

DATE OF ISSUE: 05/24/16

SUPERSEDES: 02/03/15

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1** APPEARANCE : Clear viscous liquid

ODOR: Amine.

ODOR THRESHOLD: No data available.

COLOR: Yellow.

pH: 4.6 – 5.1 (1% solution)
MELTING POINT / FREEZING POINT: No data available

BOILING POINT: No data available FLASH POINT: Does not flash. FLAMMABILILITY (solid, gas): No data available.

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

VAPOR PRESSURE: 25 mmHg @ 24°C SOLUBILITY: Emulsifies

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: <3.2 @ 25°C (Glyphosate).

AUTO-IGNITION TEMPERATURE: No data available.

DECOMPOSITION TEMPERATURE: No data available
VISCOSITY: (kinematic): 22.42 cST @ 24°C
SPECIFIC GRAVITY (Water = 1): 1.169 – 1.178 g/ml

DENSITY: 9.75 – 9.83 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**

Use of galvanized or unlined steel.

# 10.5 INCOMPATIBILE MATERIALS

This product and its spray solutions will react with galvanized or unlined steel to produce hydrogen gas that may form a highly combustible gas mixture, which could flash or explode if ignited. Acids and bases.

# 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Will emit toxic fumes as it burns.

### 11 TOXICOLOGICAL INFORMATION

### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact. LC<sub>50</sub> (rat): >2.2 mg/L (4 HR) LD<sub>50</sub> Oral (rat): >5,000 mg/kg LD<sub>50</sub> Dermal (rat): >5,000 mg/kg

Acute Toxicity Estimates: No data available Skin Irritation (rabbit): Harmful if absorbed.

Eye Irritation (rabbit): Causes moderate eye irritation

Specific Target Organ Toxicity: Single exposure: 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

MAKAZE® SUPERSEDES: 02/03/15

## 12 ECOLOGICAL INFORMATION

#### 12.3 ECOTOXICITY

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

### **Ecotoxicological Data**

	Species	Test Results
Glyphosate acid	Rainbow trout	5.4 mg/L – 96-hour LC <sub>50</sub>
	Bluegill	7.3 mg/L – 96-hour LC <sub>50</sub>
	Bee	>100µ/bee – Contact LD <sub>50</sub>

**DATE OF ISSUE: 05/24/16** 

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 <a href="http://www.acrecycle.org/">http://www.acrecycle.org/</a>. Do not contaminate water, food or feed by storage or disposal.

## 14 TRANSPORT INFORMATION

## 14.3 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED BY USDOT

U.S. Surface Freight Classification: COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS 60)

# 15 REGULATORY INFORMATION

# 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA HMIS

Health 0 Least Health Flammability Flammability Slight 0 Reactivity Instability Moderate 0 3 В PPE High

4 Severe

MAKAZE®
DATE OF ISSUE: 05/24/16 SUPERSEDES: 02/03/15

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate

Immediate Y
Delayed N

Fire Neactive 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 applicable

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:

completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to

### **CAUTION**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

## 16 OTHER INFORMATION

SDS STATUS: Section 2 revised.

**PREPARED BY:** Registrations and Regulatory Affairs

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®Roundup Ready is a registered trademark of Monsanto Technology, LLC

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**REVIEWED BY:** Environmental Health and Safety

safely use the product described by this data sheet for their specific purpose.