# SAFETY DATA SHEET

SDS NUMBER: 1000592579-18-LPI SDS REVISIONS: SEC. 7 **DATE OF ISSUE: 04/23/18**  **BLACKMAX® 22 SUPERSEDES: 07/06/16** 

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

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

1.1 PRODUCT IDENTIFIER:

**BLACKMAX® 22 0-0-4** 

TRADE NAME: 1.2 RECOMMENDED USE: **FERTILIZER** 

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 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 - Oral H302 Category 4

#### 2.2 Label elements



Signal word: WARNING

Hazard Statement: H302 - Harmful if swallowed.

H313 - May be harmful in contact with skin.

Precautionary

Statement: P264 - Wash hands and face thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. (Prevention):

Precautionary

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

P330 - Rinse mouth. (Response):

Precautionary Statement:

(Storage): Not required or applicable.

Precautionary Statement:

P501 – Dispose of contents/container according to local, state and federal regulations. (Disposal):

# 2.3 Other hazards

None known

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#### 3. COMPOSITION, INFORMATION ON INGREDIENTS

#### 3.1 Substances

Classification according to 29 CFR 1910.1200

3.2 Mixtures

 Chemical Name:
 CAS No.
 Concentration [%]

 Potassium Hydroxide
 1310-58-3
 2-12 

 Sodium Hydroxide
 1310-73-2
 ≤ 2.5

 Leonardite
 1415-93-6
 15 - 35

#### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Eye contact: 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.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to

swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth

to an unconscious person.

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

doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by

mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Eye irritation.

### 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: No specific antidote. 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: Foam, carbon dioxide (CO<sub>2</sub>), dry powder, water spray. 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, oxides of carbon and silicon dioxide can be released.

# 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.

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#### **ACCIDENTAL RELEASE MEASURES**

## 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions:

Avoid inhalation of vapors, dusts and spray mist and contact with skin and eyes. Ensure adequate

ventilation. Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS

**Environmental Precautions:** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains,

sewers, or watercourses.

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

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Remove residual contamination.

Never return spills to original containers for re-use.

#### HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

Avoid inhalation of dusts, vapors / spray and contact with eyes, skin and clothing. Do not breathe dusts, mist 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:

DO NOT STORE OR TRANSPORT IN ALUMINUM CONTAINERS. Do not allow contact with aluminum parts, aluminum containers or other equipment made from aluminum. This precaution does not apply to equipment made from steel. Cold storage okay with circulation. No air sparging;  $NH_4$  to  $NH_3$  if pH < 8. Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products, and seed. 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®) STEL/CEIL (C)

Components	rype	value
Potassium Hydroxide	STEL/CEIL	2 mg/m <sup>3</sup>
Sodium Hydroxide	STEL/CEIL	2 mg/m <sup>3</sup>

U.S. Workplace Exposure Level (OSHA) PELs

Components	Type	Value
Sodium Hydroxide	TWA	2 mg/m <sup>3</sup>

#### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Specimen	
No listings		•	

No listings

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#### **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: Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove

contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware

that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dusts 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1** APPEARANCE : Liquid ODOR: None.

ODOR THRESHOLD: No data available.

COLOR: Black. pH: 12.5

MELTING POINT / FREEZING POINT: No data available

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

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

VAPOR PRESSURE: 17 mm Hg @ 20°C.

SOLUBILITY: Soluble

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

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available

VISCOSITY: 20 cP @ 68°F SPECIFIC GRAVITY (Water = 1): 1.199 g/ml

DENSITY: 10.00 lbs./gal / 1.2 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 reactions known under normal use conditions. Will not polymerize.

# 10.4 CONDITIONS TO AVOID

Contact with aluminum parts, aluminum containers or other equipment made from aluminum.

## 10.5 INCOMPATIBILE MATERIALS

None known.

## 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon, Potassium, Silicon, and Sodium.

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#### 11. TOXICOLOGICAL INFORMATION

### 11.1 LIKELY ROUTES OF EXPOSURE

Eye contact, skin contact.

LC<sub>50</sub> (rat) No data available for product

LD<sub>50</sub> Oral (rat): 273 mg/kg (Potassium Hydroxide) LD<sub>50</sub> Dermal (rat): No data available for product Acute Toxicity Estimates: No data available for product Skin Irritation (rabbit): No data available for product Eye Irritation (rabbit): No data available for product

Specific Target Organ Toxicity: Single exposure: No data available for product.

Aspiration: No data available for product
Skin Sensitization (guinea pig): Not a sensitizer
Carcinogenicity: No data available for product
Germ Cell Mutagenicity: No data available for product

Interactive Effects: None known

### 12. ECOLOGICAL INFORMATION

#### 12.1 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. This product is not intended for use in aquatic settings.

**Ecotoxicological Data** 

 
 Components
 Species
 Test Results

 Potassium Hydroxide (CAS: 1310-58-3)
 Mosquito Fish Guppy
 80 mg/L - 24 hour LC<sub>50</sub>

 165 mg/L - 24 hour LC<sub>50</sub>
 165 mg/L - 24 hour LC<sub>50</sub>

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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

### 14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)

PREPARED BY: Registrations and Regulatory Affairs

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REVIEWED BY: Environmental Health and Safety

#### 15. REGULATORY INFORMATION 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS NFPA & HMIS Hazard Ratings: **NFPA HMIS** Health Least Health Flammability Flammability Slight 1 0 Instability Moderate Reactivity PPE 3 В High Severe SARA Hazard Notification/Reporting SARA Title III Hazard Category: **Immediate** Fire Sudden Release of Pressure Delayed Reactive Reportable Quantity (RQ) under U.S. CERCLA: Potassium Hydroxide (CAS: 1310-58-3) 1,000 lbs.; Sodium Hydroxide (CAS: 1310-73-2) 1,000 lbs. SARA, Title III, Section 313: Not listed 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 harm. 16. OTHER INFORMATION SDS STATUS: Section 7 revised

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