



Safety Data Sheet

Report Date 09-May-16

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1. Identification

Product Name : LIQUID CHISEL 0-0-4
Synonyms : None
Product Use : Soil Conditioner, Potash Solution, Line Cleaner
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : May cause moderate irritation.
Eye Irritation : Irritating to eyes. Risk of serious damage to eyes.
Acute Toxicity Oral : LD50 \geq 15,000 mg/kg (rats)
Acute Toxicity Dermal : No information found

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2A/2

Hazard Statement : May be harmful if swallowed
Causes serious eye irritation
May be harmful in contact with skin
Causes skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of plant nutrients derived from Potassium Hydroxide (CAS No. 1310-58-3).	Proprietary	32
Polyaliphatic acid salts		63
Alkyl aryl sulfonates (as line cleaner and soil conditioning agents)		5
GUARANTEED ANALYSIS:		
Soluble Potash (K ₂ O):		4.00%

4. First Aid Measures

Eye : May cause irritation. Immediately flush eyes with large amounts of water, continuing for at least 15 minutes while holding the eyelids apart. Seek immediate medical attention if irritation persists.

Skin : May cause mild irritation. Remove contaminated clothing and wash exposed area with large amounts of water. If irritation develops or persists, seek medical attention. Launder contaminated clothing before reuse.

Inhalation : May cause irritation. Move person to fresh air. If irritation develops or persists, seek medical attention.

Ingestion : Give large amounts of water to drink and get medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration.

Indication of Immediate Medical Attention and Special Treatment Needed : If there is contact with the spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the pesticide label(s). Treat symptomatically.



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5. Fire Fighting Measures

- Extinguishing Media** : Use alcohol-resistant foam, dry powder or carbon dioxide extinguishing agents.
Specific Hazards Arising from the Chemical : May emit oxides of carbon and potassium under fire conditions.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Avoid eye contact with product. Do not take internally. Avoid contact with or inhalation of the spray mist.
Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator with organic vapor cartridge. Eyewash station and emergency shower should be available nearby.
Emergency Procedures : Keep unprotected and unnecessary personnel out of spill area. Dike spill to prevent spreading.
Methods and Materials for Containment and Cleanup : Absorb spilled product with earth or sand. Do not discharge into drains or surface water. Collect contaminated absorbent material and place in suitable containers for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Do not contaminate water supplies, lakes, streams or ponds. Keep container tightly closed and do not allow water to be introduced into it.
Conditions for Safe Storage : Store in a dry place. Temperatures below 25 Degrees F. may result in product crystallization. The product will readily reconstitute, however, with warmer temperatures and gentle agitation of the container.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established for this mixture.
Appropriate Engineering Controls : General and/or local exhaust should be sufficient.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator with organic vapor cartridge. Eyewash station and emergency shower should be available nearby.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear, dark amber liquid.
Flash Point, °F : Not determined
Boiling Point, °F : >200 Degrees C.
Melting Point(Freezing point), °C : <30 Degrees F.
Vapor Pressure, mm Hg @ 20 °C : Not established
Vapor Density : Not established
Solubility in Water : Not established
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.178-1.198
Evaporation Rate(Butyl Acetate = 1) : Not established
Octanol/Water Partition Coefficient : No information found



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pH : 2.6-3.3
Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not determined
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce oxides of carbon and phosphorus under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Stable under normal conditions of use and storage. Avoid contact with high temperatures and alkaline materials.
Incompatible Materials : Avoid contact with strong oxidizers, nitrites, sulfites and alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : $\geq 15,000$ mg/kg
Acute Toxicity (Dermal LD50) : No information found.
Acute Toxicity Inhalation LC50 : No information found; breathing of mists may cause mild respiratory discomfort.
Likely Routes of Exposure : Eyes and skin.
Skin Irritation : Contact may cause moderate irritation.
Eye Irritation : Irritating to eyes. Risk of serious damage to eyes.
Skin Sensitization : No information found.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT in single packages <951 gallons. Regulated if shipped by air (IATA) or vessel (IMDG) as Corrosive Liquid, n.o.s. (Potassium Hydroxide)
Transport Hazard Class : Corrosive (8) - IATA/IMDG
UN Identification Number : UN1760 - IATA/IMDG
Packaging Group : PG III - IATA/IMDG
Environmental Hazards : No information found



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- Transport in Bulk** : If shipped in single package \geq 951 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Potassium Hydroxide), 9, PG III "ERG # 171"
- Special Precautions for Transportation** : Regulated if shipped via air (IATA) or vessel (IMDG).
- Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 1
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 09-May-2016