



109 Calle Propano # B, Paso Robles, CA 93446

Phone (888) 420-7770 Fax (866) 812-9589

Safety Data Sheet **Humboldt Nutrients Micro 5-0-1**

1. Product and company identification:

Product name: Humboldt Nutrients Micro 5-0-1
Chemical family: Nitrates, and inorganic minerals in aqueous solution.
Material uses: Hydroponic plant nutrient
Supplier/Manufacturer: Humboldt Nutrients
109 Calle Propano #B, Paso Robles, CA 93446
Tel: (888) 420-7770
Fax: (866) 812-9589
In case of emergency: CHEMTREC, U.S.: 1-800-424-9300
International: +1-703-527-3887

2. Hazards identification:

Emergency overview

Physical state: Liquid
Color: Reddish
Odor: None
Precautionary measures: Store in a cool dry area away from children, food, and feed products. Protect from freezing. Avoid contamination and spills. Avoid contact with eyes, skin, and clothing. Avoid inhalation. Wash hands thoroughly before eating, or smoking.
Routes of entry: Skin, eyes, inhalation, ingestion.

Potential acute health effects

Inhalation: Minor irritation to the respiratory system.
Ingestion: May cause abdominal pain, nausea, vomiting, diarrhea
Eyes: Minor irritation to eyes
Skin: Minor irritation to skin

Potential chronic health effects

Chronic effects: No known significant effects
Carcinogenicity: No known significant effects
Mutagenicity: No known significant effects
Teratogenicity: No known significant effects
Developmental effects: No known significant effects
Fertility effects: No known significant effects

Over-exposure signs/symptoms

Inhalation: Respiratory tract irritation, coughing
Ingestion: No specific data
Skin: Irritation, redness
Eyes: Pain or irritation, watering, redness



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3. Composition/information on ingredients

Name	%	CAS Number
Calcium Nitrate	1-5	10124-37-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

4. First aid measures

Inhalation: Move person to ventilated or outside air area.
 Ingestion: Administer water to conscious person only. Seek medical attention.
 Skin: Wash area with warm soapy water
 Eyes: Flush eyes thoroughly with water removing any vision correction implements prior to flushing. Seek medical attention.

5. Fire fighting measures

Flammability of the product: This product may increase the risk of fire and may aid combustion. In a fire, or if heated, a pressure increase could occur causing the container to burst.

Extinguishing media

Suitable: Use extinguishing media suitable for surrounding fire
 Not suitable: Unknown
 Flash point: Does not flash
 Flammable limits: N/A
 Hazardous decomposition products: N/A

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Clear surrounding areas. Keep unnecessary personnel from entering. Avoid touching or walking through spilled product. Shut off all ignition sources. No flares, smoking, or flames in hazard area. Avoid breathing vapor or mist. Wear appropriate personal protection gear including wearing gloves, safety glasses. Use respirator if necessary.
 Environmental precautions: Avoid dispersal into waterways, drains, and sewers.

Methods for cleaning up

Small spill: Stop leak if possible and/or clear containers from spill area. Dilute with water and mop up or use proper drying agent to absorb liquid. Do not use sawdust as it could turn into a fire hazard when dry. Dispose in proper container.



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Large Spill: Stop leak if possible and/or clear containers from spill area. Prevent entry into waterways, runoff, sewers, or basements. Contain and collect spillage with absorbent, non-combustible material i.e. sand, earth, vermiculite or diatomaceous earth and place in proper container for disposal. Do not use sawdust as it could turn into a fire hazard when dry.

7. Handling and storage

Handling: Eating, drinking, and smoking should be prohibited in areas where products or materials are handled, stored, or processed. Employees should wash hands and face after handling and prior to eating, drinking or smoking. Do not get in eyes. Do not inhale vapor or mist. Do not ingest. Avoid direct contact with skin and clothing. Keep in the original container or an approved alternative made from a compatible material. Keep containers sealed and upright when not in use.

Storage: Store in a cool, dry area away from children, food, and feed products. Keep out of direct sunlight. Protect from freezing. Avoid contamination and spills. Keep containers tightly sealed and upright to prevent leaking or spills. All product and materials must be stored in well labeled containers. Ideal temperature storage conditions are above 40°F and below 80°F.

8. Exposure controls/personal protection

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits

Hygiene measures: Wash hands, forearms and face thoroughly after handling materials and/or products prior to eating, smoking, using the bathroom and at the end of the working period. Appropriate procedures should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Be sure that eyewash stations and safety showers are operational and close to the workstation location.

Personal protection

Respiratory: Avoid prolonged exposure to vapors, mist, fumes. If necessary, wear a properly-fitted respirator. Respirator selection must be based on



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	expected exposure levels, the hazard of the product, and the working capabilities of the chosen respirator.
Hands:	Gloves should be worn when handling any chemical or product substances if risk assessment deems that it is necessary. Otherwise, thoroughly washing hands after handling containers or substances is necessary.
Eyes:	Safety eyewear should be worn when risk assessment deems necessary to avoid contact by liquid product splash, mist, or product dust.

9. Physical & chemical properties

Physical state:	Liquid
Color:	Reddish
Odor:	None
pH:	5.0
Boiling point:	100°C (212°F)
Evaporation rate:	Not detectable
Vapor density (Air=1):	N/A
Specific gravity:	1.15
Water solubility:	Complete, Miscible

10. Stability & reactivity

Stability:	Stable
Incompatibility:	N/A
Conditions to avoid:	N/A
Hazardous polymerization:	Will not occur
Hazardous decomposition products:	Not known

11. Toxicological information

Route of entry:	Eyes, ingestion, inhalation, skin.
Effects of acute exposure:	Non-toxic
Chronic toxicity:	No data available
Reproductive toxicity:	None
Carcinogenicity:	N/A
<u>Irritation/Corrosion</u>	
Skin:	No data available
Eyes:	No data available
Respiratory:	No data available



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Sensitizer

Skin: No data available

Respiratory: No data available

Carcinogenicity

Mutagenicity: No data available

Teratogenicity: No data available

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.