

SAFETY DATA SHEET

Material name: S-K-Microsource + Humates Prill (SKMH)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Manufacturer Information

Heart of Nature
2470 St. Rose Pkwy. # 301
Henderson, NV 89074

Phone: 661-399-9755
Fax: 661-399-9758

2. HAZARDS IDENTIFICATION

Emergency Overview

Dust may cause eye, skin and respiratory tract irritation.

Potential Health Effects: Eyes

May cause eye irritation.

Potential Health Effects: Skin

May cause skin irritation.

Potential Health Effects: Ingestion

Not considered a likely route of exposure under normal product use conditions. May be harmful if swallowed.

Potential Health Effects: Inhalation

Dust may cause respiratory tract irritation.

HMIS Ratings: Health: 1, Fire: 1, HMIS Reactivity: 0

Hazard Scale: 0= Minimal, 1= Slight, 2= Moderate, 3= Serious, 4= Severe *= Chronic hazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component
Not available	Trace Elements of Sulfonated Potash
7704-34-9	Sulfur
7440-70-2	Calcium
91728-14-2	Aluminum
584-08-7	Potassium Carbonate
7439-89-6	Iron
1415-93-6	Leonardite
8061-52-7	Calcium Lignosulfonate

4. FIRST-AID MEASURES

First Aid: Eyes

If material comes into contact with eyes, flush with water for 15 minutes. If irritation persists, seek medical attention.

First Aid: Skin

Slush skin with water, if irritation persists, contact physician.

Material name: S-K-Microsource + Humates Prill (SKMH)

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical professionals.

First Aid: Inhalation

Move to non-contaminated air. If the affected person is not breathing, begin artificial respiration and call 911 if symptoms continue to persist.

5. FIRE-FIGHTING MEASURES

General Fire Hazards

Note that sulfur dust may form flammable or explosive mixture in air.
See Section 9 for Flammability Properties.

Hazardous Combustion Products

Not determined.

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

Fire Fighting Equipment/Instructions

Fire fighters should wear full protective gear.

PA Ratings: Health: 1, Fire: 1, Reactivity: 0

Hazard Scale 0= Minimal, 1= Slight, 2= Moderate, 3= Serious, 4= Severe

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures:

Stop the flow of material as long as it is without risk.

Clean-Up Procedures:

Avoid the generation of dusts during clean-up. Sweep up or gather material and place in material appropriate container for disposal.

Evacuation Procedures:

Isolate area. Keep unnecessary personnel away.

Special Procedures:

None.

SAFETY DATA SHEET

Material name: S-K-Microsource + Humates Prill (SKMH)

7. HANDLING AND STORAGE

Handling Procedures:

Avoid dust generation. Avoid contact with eyes and skin. Wear protective clothing during use.

Storage Procedures:

Store in cool, dry location.

8. EXPOSURE CONTROLS/PERSONNEL PROTECTION

A: Component Exposure Limits

ACGIH, OSHA and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls:

Showers, Eye Station, Ventilation and Local Exhaust.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

Use impervious gloves and long sleeve clothing.

Personal Protective Equipment: Respiratory

NIOSH/MSHA approved respiratory protection should be worn for prolonged exposure or if irritation is experienced.

Personal Protective Equipment: General

Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granular	Odor:	Sulfur smell
Physical State:	Solid	pH:	3.10 (10% Solution)
Vapor Pressure:	SD	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	ND
Solubility (H2O)	ND	Specific Gravity:	ND
Evaporation Rate:	ND	VOC:	ND
Octanol/H2O Coeff:	ND	Flash Point:	N/A
Flash Point Method:	N/A	Upper Flammability Limit:	N/A
Lower Flammability Limit:	N/A	Burning Rate:	N/A
Auto Ignition	N/A		

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10. CHEMICAL STABILITY AND REACTIVITY

Chemical Stability

This is a stable product

Chemical Stability: Conditions to Avoid

Avoid dust generation. Keep away from ignition sources

Incompatibility

None

Hazardous Decomposition

Not Determined

Possibility of Hazardous Reactions

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Dose Effects

A: General Product Information

No information available for this product

B: Component Analysis – LD50/LC50

Sulfur (7704-34-9)

Inhalation LC50 Rat > 9.23 mg./kg. 4 h; Oral LD50 Rat > 3000 mg./kg; Dermal LD50

Rabbit > 2000 mg/kg

Potassium Carbonate (584-08-7)

Oral LD 50 Rat 1870 mg/kg; Dermal LD50 Rat 1.87 mg/kg

Iron (743989-6)

Oral LD50 Rat 984 mg/kg

Carcinogenicity

A: General Product Information

No information available for this product

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NIOSH or NTP

12. ECOLOGICAL INFORMATION

A: General Information

No information available on the product.

SAFETY DATA SHEET

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B: Component Analysis – Ecotoxicity – Aquatic Toxicity

Sulfur (770434-9)

Test & Species	Conditions
96 Hr. LC50 Brachydanio Rerio	866 mg/L (static)
96 Hr. LC50 Lepomis Macrochirus	< 14mg/L (static)
96 Hr. LC50 Oncorhynchus	> 180 mg/L (static)

Iron (7439-89-6)

Test & Species	Conditions
96 Hr. LC50 Morone Saxatilis	13.6 mg/kg. (static)
96 Hr. LC50 Cyprinus Carpio	0.56 mg/L (Semi-Static)

13. DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA waste numbers are applicable for this product's components

Disposal Instructions

All waste must be handled in accordance with local, state and federal regulations.

See Section 7 for handling procedures.

See Section 8 for personal protective equipment recommendations

14. TRANSPORT INFORMATION

US DOT Information

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

All components of this product are either listed or are exempt on the TSCA Inventory.

US Federal Regulation

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of The Act and Title 40 of the Code of Federal Regulations, Part 372.

SAFETY DATA SHEET

Material name: S-K-Microsource + Humates Prill (SKMH)

Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

U.S. State Regulations

California Proposition 65

This product contains Proposition 65 chemicals (Minerals such as silica, etc.).

Component Analysis - State

The following components appear on one or more of the following state hazardous substance list.

Component	CAS #	CA	MA	MN	NJ	PA	RI
Sulfur	7704-34-9	YES	YES	NO	YES	YES	YES
Calcium	7440-70-2	YES	YES	NO	YES	YES	YES
Iron	7439-89-6	YES	NO	NO	NO	NO	NO
Leonardite	1415-93-6	YES	NO	NO	NO	NO	NO
Calcium Lignosulfonate	8061-52-7	YES	NO	NO	NO	NO	NO

Component Analysis – WHMIS-DL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure Act

Component	CAS #	Minimum Concentration
Potassium Carbonate	584-08-07	1%

SAFETY DATA SHEET

Material name: S-K-Microsource + Humates Prill (SKMH)

Additional Regulatory Information Component Analysis – Inventory

Component	CAS #	TSCA	CAN	EEC
Sulfur	7704-34-9	YES	DSL	EINECS
Calcium	7440-70-2	YES	DSL	EINECS
Aluminum	91728-14-2	NO	NO	NO
Potassium Carbonate	584-08-7	YES	DSL	EINECS
Iron	7439-89-6	YES	DSL	EINECS
Leonardite	1415-93-6	YES	DSL	EINECS
Calcium Lignosulfanate	8061-52-7	YES	DSL	EINECS

16. OTHER

The Prop 65 Notice is only applicable to products sold in the state of California.

CALIFORNIA PROPOSITION 65 WARNING
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)
For more information: www.watts.com/prop65

General Disclaimer

The information provided in this Safety Data Sheet is correct the best of our knowledge, information and belief at the due of its publication. The information given is designated only as a guidance for safe handling, use, processing, storage, transporatation, disposal and release and is not to be considered a warranty or quality specifications. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. No guarantee is made as to accuracy or completeness, therefore the user assumes all risks involving the use of this product.

END OF SAFETY DATA SHEET