

Heartland Energy Group LTD.
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# **SAFETY DATA SHEET**

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: Soil Medic

General Description: Natural Organic Compounds

Revision Date: 1/1/2022

REACH Registration: The component in this product has been

Registered according to Article 2 REACH Regulation (EC) No. 1907/2008

For General Information call: 1-877-797-2811

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at 1-800-424-9300

HMIS Rating	
Health	0
Fire	0
Reactivity	0
Personal Protection	Α

## **Rating Scale**

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

#### II. HAZARD INFORMATION

GHS Classification of the substance or mixture

Acute Toxicity-Oral: Category 5
Skin Corrosion/Irritation: Category 3
Serious Eye Damage/Eye Irritation: Category 2B

**GHS Label Elements** 

Signal Word: Warning Symbols: Not Applicable

Hazard Statements: May be harmful if swallowed

Causes mild skin irritation Causes eye irritation

Hazards not otherwise classified (HNOC) or not covered by GHS-Not Applicable

Other Information: May cause mild skin irritation if not rinsed off with soap and water

May cause eye irritation if not rinsed out with copious amounts of water

#### III. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substances**

Not applicable

#### **Mixtures**

Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### IV. FIRST-AID MEASURES

**GENERAL:** If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in

attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious

person.

**INHALATION:** IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing.

**SKIN:** IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. If irritation develops or persists, seek medical attention.

EYES: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses

if present and easy to do so. If pain, blinking or irritation develops or persists, get medical

attention. Continue rinsing.

INGESTION: IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from Poison

Control Center or medical professional. Seek medical attention if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries after inhalation:

Symptoms/injuries after skin contact:

May cause respiratory irritation

May cause skin irritation

Symptoms/injuries after eye contact:

Direct contact with the eyes is likely to be irritating

Symptoms/injuries after ingestion: May cause gastrointestinal irritation.

#### Indication of any immediate medical attention and special treatment needed

No additional information available.

## V. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable extinguishing media: Carbon dioxide. Dry powder. Foam

Special hazards arising from the substance or mixture

Fire hazard: Product is not flammable Explosion hazard: Product is not explosive

Reactivity: No dangerous reactions known under normal conditions of use.

Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting

any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent

human exposure to fire, fumes, smoke and products of combustion.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory

protection.

#### VI. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**General measures**: Evacuate area. Keep upwind. Ventilate area. Spill should be handles by trained

clean-up crews properly equipped with respiratory equipment and full chemical

protective gear (see Section 8)

For non-emergency personnel:

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

For emergency responders: Wear suitable protective clothing, gloves and eye or face protection. Approved

supplied air respirator, in case of emergency.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters

sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up:

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into

sewers or streams. Sweep or shovel spills into appropriate container for disposal.

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Wash spill area thoroughly with plenty of soap and water. Place in a suitable container for disposal in accordance with waste regulations (see Section

13)

Reference to other sections

No additional information available

#### VII. HANDLING AND STORAGE

#### **Precautions for safe handling**

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Avoid

contact with skin, eyes and clothing. Provide good ventilation in process area to prevent formation of vapor. Wash hands and other exposed areas with mild soap

and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in dry, well ventilated area. Keep container closed when not in use.

#### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

## **Exposure controls:**

Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially

in confined areas.

Personal protective equipment:

Gloves. Protective goggles

Hand protection: Use gloves chemically resistant to this material when prolonged or repeated

contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove

supplier.

Eye protection: Use eye protection suitable to the environment. Avoid direct contact with

eyes.

Skin and body protection: Wear long sleeves and chemically impervious PPE/coveralls to minimize

bodily exposure.

Respiratory protection Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust

exceed PELs or other applicable OELs, use NIOSH-approved respiratory

protective equipment.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Color: Dark brown. Black Odor: Dark available

Odor Threshold: No data available

pH: 9.5-10.5

Relative evaporation rate (butylacetate=1):

Melting point:

Freezing point:

No data available

100°C (212°F)

Flash point:

Auto-ignition temperature:

Decomposition temperature:

Flammability (solid, gas):

Vapor pressure:

Polative vapor density at 20°C:

Nonflammable (T.C.C.)

No data available

No data available

Same as water

Relative vapor density at 20°C:

Relative density:

No data available
1.01-1.03

Solubility: Water: 99%
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidizing properties: No data available

No data available

Other information: No other information

**Explosive limits:** 

#### X. STABILITY AND REACTIVITY

#### Reactivity

No dangerous reactions known under normal conditions of use.

#### **Chemical stability**

Stable under recommended handling and storage conditions (see section 7)

#### Possibility of hazardous reactions

None known

#### Conditions to avoid

None known

#### Incompatible materials

Strong oxidizing agents

#### **Hazardous decomposition products**

Carbon oxides (CO, CO2). Sulfur oxides. Hydrocarbons.

#### XI. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Acute toxicity: Not classified Skin corrosion/irritation: Not classified Serious eye damage/irritation: Not classified Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Reproductive toxicity: Not classified Specific target organ toxicity (single exposure): Not classified Specific target organ toxicity (repeated exposure): Not classified Aspiration hazard: Not classified Symptoms/injuries after inhalation:Not classifiedSymptoms/injuries after skin contact:Not classifiedSymptoms/injuries after eye contact:Not classifiedSymptoms/injuries after ingestion:Not classified

## XII. ECOLOGICAL INFORMATION

**Toxicity** 

Ecology – general: No information available

Persistence and degradability

Soil Medic -

Persistence and degradability

No information available

Bioaccumulative potential No additional information available

Mobility in soil No additional information available

Other adverse effects

No additional information available

## XIII. DISPOSAL CONSIDERATIONS

**Water Treatment Methods** 

Waste treatment methods: Do not discharge to public wastewater systems without permit of pollution control

authorities. No discharge to surface waters is allowed without an NPDES permit. Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Do not

allow the product to be released into the environment.

## XIV. TRANSPORT INFORMATION

In accordance with DOT Not hazardous for transport **Additional information** 

Other information: No supplementary information available

Transport by sea

No additional information available

Air transport

No additional information available

## XV. REGULATORY INFORMATION

# US Federal regulations Soil Medic

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard

Sodium hydroxide (1310-73-2)

Not listed on SARA 313

Sodium hydroxide (1310-73-2

CERLA RQ 1000 lb

International regulations

No additional information available

US State Regulations California Proposition 65 This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

#### Sodium hydroxide (1310-73-2

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. – Pennsylvania – RTK (Right to Know) List

#### XVI. OTHER INFORMATION

Indication of changes: Revision 1.0: New SDS Created

Revision date: 2/10/2016

Other information:

NFPA health hazard: 1 – Exposure could cause irritation but only minor residual injury even if no treatment is given

NFPA fire hazard: 0 – Materials that will not burn

NFPA reactivity: 0 – Normally stable, even under fire exposure conditions and are not reactive with water.

**HMIS III Rating** 

Health: 0
Flammability: 0
Physical: 0
Personal Protection:

## Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct or the best or our knowledge, information and belief at the date of its publication.

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**End of Safety Data Sheet**