



**Heartland Energy Group LTD.**  
**PO Box 543**  
**Grain Valley MO 64029**  
**1.877.797.2811**

## SAFETY DATA SHEET

### I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: OF1050X  
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

| HMIS Rating         |   |
|---------------------|---|
| Health              | 0 |
| Fire                | 0 |
| Reactivity          | 0 |
| Personal Protection | A |

#### Rating Scale

4 = Extreme  
3 = High  
2 = Moderate  
1 = Slight  
0 = Insignificant

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

### 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.

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**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:   | May cause respiratory irritation                        |
| Symptoms/injuries after skin contact: | 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 handled 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.

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|                          |                                                                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:           | No data available |

|                                             |                       |
|---------------------------------------------|-----------------------|
| Odor Threshold:                             | No data available     |
| Relative evaporation rate (butylacetate=1): | No data available     |
| Melting point:                              | No data available     |
| Freezing point:                             | No data available     |
| Boiling point:                              | 100°C (212°F)         |
| Flash point:                                | Nonflammable (T.C.C.) |
| Auto-ignition temperature:                  | No data available     |
| Decomposition temperature:                  | No data available     |
| Flammability (solid, gas):                  | No data available     |
| Vapor pressure:                             | Same as water         |
| Relative vapor density at 20°C:             | No data available     |
| Relative density:                           | 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     |
| Explosive limits:                           | No data available     |

**Other information:**

No other information

## 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, CO<sub>2</sub>). 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 classified |

Symptoms/injuries after skin contact:  
Symptoms/injuries after eye contact:  
Symptoms/injuries after ingestion:

Not classified  
Not classified  
Not classified

## XII. ECOLOGICAL INFORMATION

### Toxicity

Ecology – general:

No information available

### Persistence and degradability

OF1050X –

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

#### OF1050X

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.

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**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

|                               |
|-------------------------------|
| <b>XVI. OTHER INFORMATION</b> |
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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 of our knowledge, information and belief at the date of its publication.

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**End of Safety Data Sheet**