



# MATERIAL SAFETY DATA SHEET

**McKinley Resources, Inc.**

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**Emergency Response: 800-424-9300**

## 1. Chemical Identification

Product: **Hydrogen Sulfide Scavenger-1**  
General Description: **Sulfide Scavenger**  
Chemical Family: **Blend**  
Primary Hazard: **May Cause Irritation**

Hazard Rating		Rating Scale
Health	1	4 = Extreme
Fire	0	3 = High
Reactivity	0	2 = Moderate
Personal Protection	B	1 = Slight
		0 = Insignificant

## 2. Hazardous Ingredients

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous. One or more component is being claimed as a trade secret under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult section 14 for the nature of the hazard(s).

Ingredient(s)	CAS Number	Approximate Wt. %
This Product Does Not Contain Any Regulated Hazardous Ingredients.		

## 3. Handling Precautions

**Caution.** Non-combustible liquid. May cause irritation to skin and eyes. Keep container closed when not in use. Use with adequate ventilation. Do not take internally. Avoid prolonged or repeated breathing of vapor. Avoid contact with skin, eyes or clothing. Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

## 4. First Aid Information

**EYES:** Flush with water for at least 15 minutes while holding eyelids open. Call a physician if irritation persists.

**SKIN:** Remove contaminated clothing. Wash exposed area with soap and water for at least 15 minutes. For a large splash flood body under a shower. Call a physician if rash or other symptoms develop. Launder clothes before reuse.

**INGESTION:** If victim is conscious, immediately give victim several glasses of water and induce vomiting. Keep head below hips to avoid aspiration. Give water until vomitus is clear. Call a physician. If possible, do not leave victim unattended.

**INHALATION:** Remove to fresh air. If breathing is difficult, administer oxygen. Treat symptoms. Keep victim warm and quiet. Seek immediate medical attention.

**CAUTION:** If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

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## Note To Physicians

Based on individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

## 5. Health Effects Information

**Primary Route(s) Of Exposure:** Eye, Inhalation, Skin

**Eye Contact:** Irritating to the eyes. Symptoms may include stinging, tearing, redness and swelling.

**Skin Contact:** Repeated or prolonged skin contact can cause mild to severe skin irritation depending on the length of exposure and on the first aid action given. Symptoms may include redness and burning. Can cause allergic contact dermatitis in susceptible individuals.

**Ingestion:** Ingestion of large quantities (> ¼ cup) of this product may cause nausea, vomiting and diarrhea depending on the first aid action given.

**Inhalation:** Prolonged inhalation of mist or vapor can be harmful, causing irritation of the mucous membranes depending on the length of exposure and the first aid action given.

### Symptoms

**Of Exposure:** **ACUTE:** A review of available data does not identify any symptoms from exposure not previously mentioned.

**CHRONIC:** Prolonged skin contact can cause dry skin and de-fatting resulting in irritation and dermatitis. See Section 6 for additional information.

**Aggravation Of Existing Conditions:** A review of available data does not identify any worsening of existing conditions.

## 6. Toxicological Information

**Toxicity Studies:** No toxicity studies have been conducted on this product.

## 7. Physical & Chemical Properties

<b>Appearance:</b>	Clear Liquid	<b>Pour Point:</b>	0°F
<b>Odor:</b>	Mild	<b>Initial</b>	
<b>Specific Gravity:</b>	1.150	<b>Boiling Point:</b>	220 °F
<b>Density:</b>	9.59	<b>Flash Point:</b>	>325 °F TCC
<b>pH (neat):</b>	9.5 – 11.0	<b>Vapor Pressure:</b>	5 mm HG @ 100 °F
<b>Viscosity:</b>	~25 cst @ 100°F	<b>Vapor Density:</b>	> 1.0 (Air = 1.0)
<b>Solubility:</b>	Water Soluble	<b>Evaporation Rate:</b>	1.7 (Butyl Acetate = 1.0)

**Note:** These physical properties are typical values for this product and not specifications.

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## 8. Fire & Explosion Information

**Flash Point:** >325°F  
**Lower Explosive Limit:** No Data Available  
**Upper Explosive Limit:** No Data Available

**Extinguishing Media:** While this product will not normally support combustion the use of water fog, dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires is recommended. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drench the burning material.

**Unusual Fire And Explosion Hazards:** May evolve CO, CO<sub>2</sub> and/or NO<sub>x</sub> under fire conditions. Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to rupture.

## 9. Reactivity Information

**Incompatibility:** Avoid contact with strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

**Thermal Decomposition Products:** In the event of combustion CO, CO<sub>2</sub> and/or NO<sub>x</sub> may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

## 10. Personal Protection Equipment

**Respiratory Protection:** Respiratory protection is not normally needed under typical use and handling conditions. If it is possible to generate significant levels of vapors, mists or smoke, a NIOSH approved or equivalent respirator is recommended. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.

**Ventilation:** General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, mists or aerosols may be released.

**Protective Equipment:** Wear impermeable gloves, boots, apron and face shield with chemical splash goggles. A full slicker suit is recommended if gross exposure is possible.

The availability of an eye wash fountain and safety shower are recommended. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

## 11. Spill & Disposal Information

**In case of transportation accident, call the emergency response phone number: 800-535-5053**

### Spill Control And Recovery:

**Small Spills:** Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 14.

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## 11. Spill & Disposal Information (continued)

**Large Spills:** Dike and prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 14.

For large indoor spills, evacuate employees and ventilate area. Eliminate all sources of spark or flame. Those responsible for control and recovery should wear the protective equipment specified in Section 10. Ventilate area and evacuate employees from exposure if the airborne concentration exceeds the TLV. Refer to Section 14.

This product is toxic to fish. Prevent flow/discharge into lakes, ponds, streams, waterways or public water supplies.

**Disposal:** If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D001.

As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage and Disposal facility). A hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

## 12. Environmental Information

If released into the environment, see CERCLA in Section 14.

## 13. Transportation Information

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Typical proper shipping names for this product are:

<b>All Transportation Modes:</b>	Not D.O.T. Regulated
<b>UN/ID Number:</b>	N.O.S.
<b>Hazard Class:</b>	None
<b>Packing Group:</b>	III
<b>Flash Point:</b>	>325°F
<b>Hazardous Components:</b>	None
<b>RQ lbs:</b>	None
<b>RQ Component(s):</b>	None

## 14. Regulatory Information

The following regulations apply to this product:

### Federal Regulations:

#### OSHA's Hazard Communication Rule, 29 CFR 1910.1200:

Based on our hazard evaluation, the following ingredients in this product are hazardous and the reasons are shown below.

None



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## 14. Regulatory Information (continued from page 4)

No Occupational Exposure Limits Are Established For Any Component Of This Product.

**CERCLA/Superfund, 40 CFR 117, 302:**

This product does not contain any Reportable Quantity (RQ) substance.

**SARA/Superfund Amendments And Reauthorization Act Of 1986**

(Title III) – Sections 302, 311, 312 and 313:

**Section 302 – Extremely Hazardous Substance (40 CFR 355):**

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance

**Section 311 and 312 – Material Safety Data Sheet Requirements (40 CFR 370):**

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories.

\*\*\*\*\* Immediate (acute) health hazard  
\*\*\*\*\* Delayed (chronic) health hazard  
\*\*\*\*\* Fire hazard  
\*\*\*\*\* Sudden release of pressure hazard  
\*\*\*\*\* Reactive hazard

\*\*\*\*\* Indicates Primary Hazards

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of a hazardous chemical. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**Section 313 – List Of Toxic Chemicals (40 CFR 372):**

This product contains the following ingredient(s), (with CAS# and % range) which appear(s) on the List Of Toxic Chemicals:

None

**Toxic Substance Control Act (TSCA) (40 CFR 710):**

The chemical ingredients in this product are on the 8 (b) inventory list.

**Resource Conservation Recovery Act (RCRA), 40 CFR 261 Subpart C & D:**

Consult Section 11 for RCRA classification.

**Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116, (formerly Sec. 311):**

None of the ingredients of this product are specifically listed.





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## 14. Regulatory Information (continued from page 5)

Clean Air Act, Sec 111 (40 CFR60), Sec 112 (40 CFR 61, 1990 Amendments), Sec 611 (40 CFR 82, Class I and II Ozone Depleting Substances):

This product contains the following ingredients covered by the Clean Air Act:

None

### State Regulations:

#### California Proposition 65:

This product does not contain any chemicals which require warning under California Proposition 65.

#### Michigan Critical Materials:

This product does not contain any ingredients listed on the Michigan Critical Materials Register.

#### State Right To Know Laws:

This product is regulated in and state based on the components of this product.

## 15. User's Responsibility

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.