



**No Heat  
Resources**

## Material Safety Data Sheet

# HydraScav

## HYDROGEN SULFIDE SCAVENGER (H<sub>2</sub>S)

Introductory Details

Date of preparation : 3<sup>rd</sup> November 2004

### SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1. Product Details

Product Identification : Hydrogen Sulfide Scavenger (H<sub>2</sub>S)  
Product / Trade Name : No Heat HydraScav  
Chemical Name : N/A  
Chemical Formula : N/A  
Molar Mass : N/A  
Chemical Family : Solvent  
Use : Purposely designed for scavenging H<sub>2</sub>S in any circumstances. Specific gravity of HydraScav is adjusted to maximize permeability in a variety of different applications. HydraScav comes in 4 different versions: Produced Water (PW), Crude (C), HSFO (HSFO) and for Gas & Condensate (GC) however can be specifically adjusted for each application.

#### 1.2. Company's Details

**No Heat Resources Pte Ltd**  
2 Jalan Tiga Ratus  
01-06  
Singapore 488067  
Tel : +65 6546 5778

#### 1.3. Manufacturing Plant

Prima Sierra Chemicals  
1A, Jalan Bakti 1  
Taman Mutiara Rini  
81300 Skudai Johor Bahru  
Malaysia

#### 1.4. Emergency Telephone Numbers

Distributor/Company : +65 6546 5778  
24 Hours Hotline : +65 9177 9744  
  
Manufacturing Plant : +607 558 8166  
Chemical Engineer : +019 727 2033

## SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion (%)	Exposure Limit	Toxicity Data
Hydroxyl	N/A	30-40	400ppm (TWA)	Oral rat LD50: 5045 mg/kg; Skin rabbit LD50: 12.8 gm/kg; Inhalation rat LC50: 16,000 ppm/8-hour
Polyhydric alcohol	N/A	15-20	15 mg/m <sup>3</sup> (TWA)	Oral rat LD50: 12,600 mg/kg. Investigated as a mutagen.
Amine resin solution	N/A	15-20	N/A	N/A

## SECTION 3.0 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Cloudy Liquid
Odor	: Mild Odor
Solubility	: Soluble in water
Boiling Point	: 200° C
Melting Point (°C)	: N/A
pH	: 11-12
Vapour Pressure (mm of Hg at 25 °C )	: N/E
Percentage Volatiles	: 1-5%
Evaporation Rate	: Slow
Vapour Density	: N/A
Specific Gravity	: 1.02 - 1.4
Flash point	: 250° C
Auto ignition temperature	: N/E
Flammable limit (%) and	: N/A
Other properties if applicable.	: N/A

## SECTION 4 : HAZARD IDENTIFICATION

<b>Inhalation</b>	Exposure to high concentration has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.
<b>Skin contact</b>	May cause irritation with redness and pain, may be absorbed through the skin with possible systemic effects.
<b>Eye contact</b>	Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.
<b>Ingestion</b>	Can cause drowsiness, unconsciousness, and death. Gastrointestinal pain, cramps, nausea, vomiting, and diarrhea may also result. The single lethal dose for a human adult = about 250 ml (8 ounces).
<b>Acute exposure</b>	As above.
<b>Chronic exposure</b>	Chronic exposure may cause skin effects
<b>Special health precautions</b>	None

## SECTION 5 : FIRST AID MEASURES

<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
<b>Skin contact</b>	Immediately flush skin with plenty of water for at least 15 minutes. Call a physician if irritation develops.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
<b>Ingestion</b>	Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Note to Physician</b>	N/A

## SECTION 6 : FIRE FIGHTING MEASURES

<b>Conditions of flammability</b>	Excessive heat
<b>Hazardous combustion products</b>	None
<b>Explosion data</b>	Contact with strong oxidizers may cause fire or explosion. Vapors can flow along surfaces to distant ignition source and flash back.
<b>Extinguishing media</b>	Water spray, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to non-flammable mixtures, protect personnel attempting to stop leak and disperse
<b>Fire fighting procedures</b>	None

## SECTION 7 : ACCIDENTAL RELEASE MEASURE

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Rinse copious amounts of water if small spillage occurred. Expended or used material may be disposed or down sewer with water flush.

## SECTION 8 : HANDLING AND STORAGE

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles.

## SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Recommendations listed in this section indicate the type of equipment that will provide protection against over exposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

<b>Ventilation system</b>	Local and general exhausts are recommended to keep exposure levels below recommended limits.
<b>Respiratory protection</b>	Use NIOSH-approved breathing apparatus
<b>Skin/Eye protection</b>	Wear chemical resistant gloves, chemical safety goggles, coveralls, and splash aprons.
<b>Other</b>	Eye bath and safety shower must be in area.

## SECTION 10 : STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under normal conditions. Incompatible with strong oxidizing agents, aluminum, copper, iron, iron salts.
<b>Conditions to avoid</b>	Excessive Heating.
<b>Incompatible substances</b>	None
<b>Hazardous decomposition products</b>	Carbon dioxide and carbon monoxide may form when heated to decomposition.
<b>Hazardous polymerization</b>	Will not occur.

## SECTION 11 : TOXICOLOGICAL INFORMATION

Effects of acute exposure	: See Section 3.
Effects of chronic exposure	: See Section 3.
Reproductive toxicity	: Yes
Toxicologically synergistic products	: N/A
Mutagenicity	: Yes
Teratogenicity	: N/A
Carcinogenicity	: None
Irritancy	: Yes

## SECTION 12 : ECOLOGICAL INFORMATION

Mobility & Bioaccumulation	: Soluble in water : This material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.
Biodegradability	: This material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate.
Toxic	: When released into the water, this material is expected to have a half-life between 1 and 10 days. Not harmful to aquatic organisms.

## SECTION 13 : DISPOSAL INFORMATION

Dispose of container and unused contents in accordance with federal, state and local requirements.

## SECTION 14 : TRANSPORT INFORMATION

Shipping Name	: None
PIN (UN / NA)	: Not regulated (Approach UN 2865)
Primary classification	: 8
Packing group	: III
Tagboard No:	: DOT – 2184-2685 (Orange Panel) : DOT-1463 (Worded)

## SECTION 15 : REGULATORY INFORMATION

### RISK PHRASES

- R22 - Harmful if swallowed.
- R36 - Irritating to eyes.

### SAFETY PHRASES

- S7/8 - Keep container tightly closed and dry
- S7/9 - Keep container tightly closed and well ventilated place
- S23 - Do not breath gas/fumes/vapours
- S36/37/39 - Wear suitable protective clothing, gloves and eyes/ face protection

## SECTION 16 : OTHER INFORMATION

### NFPA Ratings:

Health: 1 Flammability : 1 Reactivity : 1

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