



**No Heat  
Resources**

## Material Safety Data Sheet

# HydraScav

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

Introductory Details  
Date of preparation : 17<sup>th</sup> February 2011

### SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 PRODUCT DETAILS

Product Identification : Hydrogen Sulfide Scavenger (H<sub>2</sub>S)  
Product / Trade Name : HydraScav  
Chemical Name : N/A  
Chemical Formula : N/A  
Molar Mass : N/A  
Chemical Family : Solvent  
Product Use/Application : Purposely designed for removing H<sub>2</sub>S & Mercaptans (RHS) in any circumstances. HydraScav converts H<sub>2</sub>S & RHS into Suphate Salts in water. It is effective in water, crude, HSFO, gas, condensates and fuel oils..

#### 1.2. COMPANY'S DETAILS

**No Heat Resources Pte Ltd**  
2B Jalan Jamal  
Singapore 457596  
Tel : +65 624 22258

#### 1.3. MANUFACTURING PLANT

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

#### 1.4. EMERGENCY TELEPHONE NUMBERS

Company : +65 624 22258  
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	400 ppm (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/m3	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
Odour	: 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	: 1.2 - 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>	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 :</b>	None
<b>Precautions</b>	



## 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 :</b>	None
<b>Products</b>	
<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. Must be stored above 10 degC at all times to prevent chemical separation / crystallization. Store in a 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 respirator when working temperature is above 45 deg C.
<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:</b>	Carbon dioxide and carbon monoxide may form when heated to decomposition.
<b>Products</b>	
<b>Hazardous Polymerization :</b>	Will not occur

## SECTION 11 : TOXICOLOGICAL INFORMATION

<b>Effects of Acute Exposure:</b>	See Section 3
<b>Effects of Chronic Exposure:</b>	See Section 3
<b>Reproductive Toxicity:</b>	Yes
<b>Toxicologically Synergistic Products:</b>	N/A
<b>Mutagenicity :</b>	Yes
<b>Teratogenicity :</b>	N/A
<b>Carcinogenicity:</b>	None
<b>Irritancy:</b>	Yes

## SECTION 12 : ECOLOGICAL INFORMATION

<b>Mobility &amp; Bioaccumulation :</b>	Soluble in water. This material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.
<b>Biodegradability :</b>	This material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate.
<b>Toxic :</b>	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

<b>Shipping Name:</b>	None
<b>PIN (UN / NA) :</b>	Not regulated (Approach UN 2865)
<b>Primary Classification :</b>	8
<b>Packing Group :</b>	III
<b>Tagboard No :</b>	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

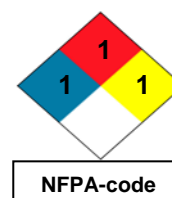
## SECTION 16 : OTHER INFORMATION

### NFPA RATINGS:

Health: 1      Flammability : 1      Reactivity : 1

Prepared by : Compliance & Safety Department  
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Revision : 7



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