



## Material Safety Data Sheet

# HyDeX

## DECONTAMINATION CHEMICAL

Introductory Details  
Date of preparation : 19<sup>th</sup> January 2010

### SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 PRODUCT DETAILS

Product Identification : Plant Decontamination Chemicals  
Product / Trade Name : HyDeX  
Chemical Name : N/A  
Chemical Formula : N/A  
Molar Mass : N/A  
Chemical Family : N/A  
Product Use/Application : **HyDeX** is effectively used to remove remaining toxic gasses such as H<sub>2</sub>S, LEL's CO<sub>2</sub> and Benzene from process equipment and contamination of storage tank containing hydrocarbons. **HyDeX 100** is formulated with special enzymes to work at ambient as well as elevated temperatures. Purposely used during plant turnaround decontaminations.

#### 1.2. COMPANY'S DETAILS

**No Heat Resources Pte Ltd**  
2B Jalan Jamal  
Singapore 457 596  
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 : +60 7 558 8166  
Chemical Engineer : +60 (0) 19 727 2033

### SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENT

CHEMICAL NAME	CAS NO.	PROPORTION (%)	EXPOSURE LIMIT	TOXICITY DATA
Aqueous Reagent	N/A	60 - 70	N/A	N/A
Non Ionic Surfactant	N/A	15 - 20	N/A	N/A

### SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Odour	: Mild Cinnamon
Solubility	: Soluble in water
Boiling Point	: 101°C
Melting Point (°C)	: N/A
pH	: 6 - 8
Vapour Pressure (mm of Hg at 25 °C )	: N/E
Percentage Volatiles	: N/A
Evaporation Rate	: Slow
Vapour Density	: N/A
Specific Gravity	: 0.992
Flash point	: None. HyDeX 100 will not burn or support combustion
Auto ignition temperature	: N/A
Flammable limit (%) and	: N/A
Other properties if applicable.	: N/A

### SECTION 4 : HAZARD IDENTIFICATION

#### INHALATION

No adverse health effects expected from inhalation

#### SKIN CONTACT

Irritant

#### EYE CONTACT

Moderate to severe irritation and possible tissue damage to eyes

#### INGESTION

Diarrhea may occur upon ingestion

#### ACUTE EXPOSURE

As above

#### CHRONIC EXPOSURE

Prolonged skin contact may cause moderate irritation and dermatitis

#### SPECIAL HEALTH PRECAUTIONS

None



### SECTION 5 : FIRST AID MEASURES

#### INHALATION

Move to fresh air, consult physician if symptoms persist

#### SKIN CONTACT

In case of contact, immediately flush skin with water repeatedly for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops or persists.

#### EYE CONTACT

In case of contact, flush eyes with water repeatedly for at least 15 minutes. Get medical advice if irritation develops.

#### INGESTION

If serious ingestion continuous, refer to a medical doctor. If large amounts were swallowed, give water to drink and several glasses of milk to induce vomiting. Get medical attention immediately

#### NOTE TO PHYSICIAN

If serious ingestion continuous, refer to a medical doctor

## SECTION 6 : FIRE FIGHTING MEASURES

### CONDITIONS OF FLAMMABILITY

None

### HAZARDOUS COMBUSTION PRODUCTS

None

### EXPLOSION DATA

None

### EXTINGUISHING MEDIA

Carbon dioxide, foam, sand or water fog

### FIRE FIGHTING PROCEDURES

None

## SECTION 7 : ACCIDENTAL RELEASE MEASURE

### ACTION TO TAKE FOR SPILLS

Rinse with copious amounts of water to dilute

### DISPOSAL METHOD

Expended or used material may be disposed or down sewer with water flush, material is BIODEGRADABLE – EVEN AS RECEIVED

## SECTION 8 : HANDLING AND STORAGE

Store **HyDeX 100** in well-sealed plastic containers. Protect containers from physical damage. Avoid using corroded containers that may effects the quality of **HyDeX 100**. Avoid handling conditions that can lead to spill or mist formation

## SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Recommendations listed in this section indicate the type of equipment that will provide protection against overexposure 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

### VENTILATION SYSTEM

Equivalent to outdoors

### RESPIRATORY PROTECTION

Not necessary

### SKIN/EYE PROTECTION

Wear chemical resistant gloves, chemical safety goggles, coveralls, and splash aprons

### OTHERS

Wash hands thoroughly after use

## SECTION 10 : STABILITY AND REACTIVITY

### CHEMICAL STABILITY

Stable under normal conditions

### CONDITIONS TO AVOID

None

### INCOMPATIBLE SUBSTANCES

None

### HAZARDOUS DECOMPOSITION -

None

### HAZARDOUS POLYMERIZATION

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>	None
<b>TOXICOLOGICALLY SYNERGISTIC PRODUCTS :</b>	None
<b>MUTAGENICITY :</b>	None
<b>TERATOGENICITY :</b>	None
<b>CARCINOGENICITY :</b>	None
<b>IRRITANCY :</b>	None

## SECTION 12 : ECOLOGICAL INFORMATION

<b>MOBILITY :</b>	Soluble in water
<b>BIOACCUMULATION :</b>	This material is not expected to significantly bioaccumulate.
<b>BIODEGRADABILITY :</b>	This material is biodegradable to some extent
<b>TOXICITY :</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.

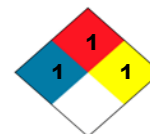
## SECTION 13 : DISPOSAL INFORMATION

Dispose of in an approved facility in accordance with all local, provincial and federal regulations

## SECTION 14 : TRANSPORT INFORMATION

<b>Shipping Name:</b>	None
<b>PIN (UN / NA) :</b>	Non Registered
<b>Primary Classification :</b>	9
<b>Packing Group :</b>	III

**NFPA Ratings:** Health 1; Flammability 1; Reactivity 1



NFPA-code

## 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
- S36/37/39 - Wear suitable protective clothing, gloves and eyes/face protection

## SECTION 16 : OTHER INFORMATION

Prepared by : Compliance & Safety Department  
No Heat Resources Pte Ltd &  
Prima Sierra Chemical Sdn Bhd  
Tel : +65 624 22258 / +60 7 558 8166

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