



No Heat  
Resources

## Material Safety Data Sheet

# MeDeX 80

## DECONTAMINATION

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

### SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 PRODUCT DETAILS

Product Identification : Mercury Deconatmination  
Product / Trade Name : MeDeX 80  
Chemical Name : N/A  
Chemical Formula : N/A  
Molar Mass : N/A  
Chemical Family : N/A  
Product Use/Application : To remove mercury vapour from the air. **MeDeX 80** is used via steam injection, direct spray or soaking technique to minimize / eliminate the dangers of toxic mercury. **MeDeX 80** is also used to decontaminate mercury contaminated tools and equipment.

#### 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
Aqueous Compound	N/A	50 - 75	N/A	N/A
Dispersant	127-09-3	5 - 20	N/A	N/A
Oxidation Agent	N/A	5 - 10	N/A	N/A
Extreme Pressure Agent	N/A	0 – 5	N/A	N/A

**SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid
Odour	: Mild Odor
Solubility	: Negligible
Boiling Point	: >120°C
Melting Point (°C)	: N/A
pH	: 8 - 9
Vapour Pressure (mm of Hg at 25 °C )	: N/A
Percentage Volatiles	: N/A
Evaporation Rate	: Will not evaporate
Vapour Density	: More than air
Specific Gravity	: 0.99 – 1.15
Flash point	: No Flash Point
Auto ignition temperature	: >611 °C
Flammable limit (%) and	: N/A
Other properties if applicable.	: N/A

**SECTION 4 : HAZARD IDENTIFICATION****PHYSICAL/CHEMICAL EFFECTS**

Non-flammable  
 Will not support combustion  
 Will not release vapor

**HEALTH EFFECTS****INHALATION**

Very high concentrations may cause irritation to the skin, nose, throat and respiratory tract

**SKIN CONTACT**

Slightly irritating with possible redness, pain, swelling edem

**EYE CONTACT**

Irritant. Prolong and repeated contact may cause conjunctivitis and possible cornea injury

**INGESTION**

Large quantities may cause gastro-intestinal upset.

**ACUTE EXPOSURE**

As above

**CHRONIC EXPOSURE**

None

**SPECIAL HEALTH PRECAUTIONS**

None



## **SECTION 5 : FIRST AID MEASURES**

### **INHALATION**

Not expected to require first aid measures

### **SKIN CONTACT**

In case of contact, immediately flush skin with soap and 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 large amounts were swallowed, give water or milk to drink. DO NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person

### **NOTE TO PHYSICIAN**

N/A

## **SECTION 6 : FIRE FIGHTING MEASURES**

### **CONDITIONS OF FLAMMABILITY**

None. Will not burn or support combustion

### **HAZARDOUS COMBUSTION PRODUCTS**

None

### **EXPLOSION DATA**

Do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion or oxygen deficiency.

### **EXTINGUISHING MEDIA**

Water Spray, Dry Chemical, Foam or Carbon Dioxide

### **FIRE FIGHTING PROCEDURES**

None

## **SECTION 7 : ACCIDENTAL RELEASE MEASURE**

### **NOTIFICATION PROCEDURES**

In the event of spill or accidental release, notify relevant authorities in accordance with all applicable regulations

### **PROTECTIVE MEASURES**

Avoid contact with spilled material. Stop the source of the leak or release and contain spill if possible. Ventilate the area. Use respirator and protective clothing as discussed in this MSDS.

### **SPILL MANAGEMENT**

Cover the spill with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a disposable container. Prevent contamination of groundwater or surface water of water to dilute.

### **ENVIRONMENTAL PRECAUTIONS**

Recover excess chemical. Dilute with water. Chemical will not harm the environment.

## **SECTION 8 : HANDLING AND STORAGE**

### **HANDLING**

Use normal chemical handling procedures.

### **STORAGE**

Store in a dry and well-ventilated area.

## **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**

Local and general exhausts are recommended to keep exposure levels below recommended limits

### **RESPIRATORY PROTECTION**

No breathing apparatus required for normal handling  
Use NIOSH-approved breathing apparatus for confined space work

### **SKIN/EYE PROTECTION**

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

### **OTHERS**

Eye bath and safety shower must be in area

## **SECTION 10 : STABILITY AND REACTIVITY**

### **CHEMICAL STABILITY**

Stable under normal conditions. Incompatible with strong oxidizing agents, aluminum, copper, iron, iron salts

### **CONDITIONS TO AVOID**

Excessive heating

### **INCOMPATIBLE SUBSTANCES**

None

### **HAZARDOUS DECOMPOSITION -**

None

### **HAZARDOUS POLYMERIZATION**

Will not occur

## **SECTION 11 : TOXICOLOGICAL INFORMATION**

### **EFFECTS OF ACUTE EXPOSURE (on animal)**

Draize test, rabbit, eye: 10 mg Mild;  
Draize test, rabbit, skin: 500 mg/24H Mild;  
Inhalation, rat: LC50 = >30 gm/m<sup>3</sup>/1H;  
Oral, mouse: LD50 = 6891 mg/kg;  
Oral, rat: LD50 = 3530 mg/kg;  
Skin, rabbit: LD50 = >10 gm/kg;

**EFFECTS OF CHRONIC EXPOSURE :** N/A  
**REPRODUCTIVE TOXICIT :** N/A  
**TOXICOLOGICALLY SYNERGISTIC PRODUCTS :** N/A  
**MUTAGENICITY :** N/A  
**TERATOGENICITY :** N/A  
**CARCINOGENICITY :** NOT LISTED BY NIOSH AND ACGIH  
**IRRITANCY :** N/A

**SECTION 12 : ECOLOGICAL INFORMATION**

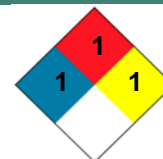
**MOBILITY :** Soluble in water  
**BIOACCUMULATION :** This material is biodegrade. This material is not expected to significantly bioaccumulate  
**BIODEGRADABILITY :** Yes  
**TOXICITY :** Freshwater Fish Species Data: 24 Hr LC50 Lepomis macrochirus: 5000 mg/L  
 Microtox Data: 18 Hr EC50 Pseudomonas putida: 7200 mg/L  
 Water Flea Data: 48 Hr EC50 water flea: 5800 mg/L

**SECTION 13 : DISPOSAL INFORMATION**

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

**SECTION 14 : TRANSPORT INFORMATION**

**Shipping Name:** None  
**PIN (UN / NA) :** Non Registered  
**Primary Classification :** 3  
**Packing Group :** III



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

NFPA-code

**SECTION 15 : REGULATORY INFORMATION**

**RISK PHRASES**

- X R22 - Harmful if swallowed.
- X R36 - Irritating to eyes.
- X R20 – Harmful by irritation

**SAFETY PHRASES**



Irritant

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

**SECTION 16 : OTHER INFORMATION**

Prepared by : Compliance & Safety Department  
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 Prima Sierra Chemical Sdn Bhd  
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