

## 1.0 M Hepes Ph 7.2

Cat#: orb348579 (MSDS)

### SECTION 1: CHEMICAL IDENTIFICATION

NAME: HEPES(4-(2-Hydroxyethyl)-piperazine-1-ethanesulfonic acid)

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME: | CAS#      | RTECS#:   | %:  |
|----------------|-----------|-----------|-----|
| HEPES          | 7365-45-9 | TL6809000 | N/A |

For more information see complete RTECS entry.

### SECTION 3: HAZARDS IDENTIFICATION

EYES: MAY CAUSE TRANSIENT IRRITATION

### SECTION 4: FIRST-AID MEASURES

EYES: FLUSH W/PLENTY OF WATER FOR 15 MINS. SKIN: FLUSH W/PLENTY OF SOAP & WATER FOR 15 MINS. INGESTION: IF CONSCIOUS & ALERT, GIVE 2-4 CUPFULS OF MILK/WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY & SUPPORTIVELY. NO SPECIFIC ANTIDOTE EXISTS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

### SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

WATER SPRAY, DRY CHEMICAL, CO2/CHEMICAL FOAM. SPECIAL FIRE FIGHTING MEASURES

PROTECTIVE EQUIPMENT: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

SPECIFIC HAZARD(S): EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR

DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE..

**SECTION 7: HANDLING AND STORAGE****HANDLING**

USER EXPOSURE: AVOID INHALATION. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. STORAGE

SUITABLE: KEEP TIGHTLY CLOSED. STORE AT 2-8°C

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****CHEMICAL****SAFETY GOGGLES**

COMPATIBLE CHEMICAL-RESISTANT GLOVES NIOSH/MSHA-APPROVED RESPIRATOR SAFETY SHOWER AND EYE BATH

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR LIQUID

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY - STABLE INCOMPATIBILITIES - STRONG OXIDIZERS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: NITROGEN OXIDES, CO, OXIDES OF SULFUR, CO<sub>2</sub>.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

**SECTION 11: TOXICOLOGICAL INFORMATION****ROUTE OF EXPOSURE**

SKIN CONTACT: MAY CAUSE SKIN IRRITATION.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. EYE CONTACT: MAY CAUSE EYE IRRITATION.

INHALATION: MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. MAY BE HARMFUL IF INHALED.

INGESTION: MAY BE HARMFUL IF SWALLOWED. SIGNS AND SYMPTOMS OF EXPOSURE

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

**SECTION 12: ECOLOGICAL INFORMATION**

DATA NOT YET AVAILABLE

**SECTION 13: DISPOSAL CONSIDERATIONS**

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

#### **SECTION 14: TRANSPORT INFORMATION**

DOT

PROPER SHIPPING NAME: NONE

NON-HAZARDOUS FOR TRANSPORT: THIS SUBSTANCE IS CONSIDERED TO BE NON-HAZARDOUS FOR TRANSPORT. IATA

NON-HAZARDOUS FOR AIR TRANSPORT: NON-HAZARDOUS FOR AIR TRANSPORT.

#### **SECTION 15: REGULATORY INFORMATION**

UNITED STATES REGULATORY INFORMATION SARA LISTED: NO

CANADA REGULATORY INFORMATION

WHMIS CLASSIFICATION: THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR, AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

DSL: YES NDSL: NO