

ATTN: SAFETY DIRECTOR
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DATE 09/29/99

CUST#: 0-495-04629
PO#: CC/092999/MORSE

SHEET

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ECTION 1 CHEMICAL IDENTIFICATION
CATALOG #: H3375 NAME: HEPES FREE ACID
ECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS
CAS #: 7365-45-9 MF: C8H18N2O4S EC NO: 230-907-9
SYNONYMS HEPES * 4-(2-HYDROXYETHYL)-1-PIPERAZINEETHANESULFONIC ACID *
ECTION 3 HAZARDS IDENTIFICATION
DATA NOT AVAILABLE
ECTION 4 FIRST-AID MEASURES
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN. IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN. IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER. IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.
ECTION 5 FIRE FIGHTING MEASURES
EXTINGUISHING MEDIA WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
SECTION 6 ACCIDENTAL RELEASE MEASURES
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
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MATERIAL SAFETY DATA

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MATERIAL SAFETY DATA SHEET H3375 CATALOG #: HĔPĖŠ FREE ACID NAME: SECTION 7. HANDLING AND STORAGE-REFER TO SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION-SECTION 8. SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
AVOID INHALATION.
AVOID CONTACT WITH EYES, SKIN AND CLO
AVOID PROLONGED OR REPEATED EXPOSURE.
NIOSH/MSHA-APPROVED RESPIRATOR.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
CHEMICAL SAFETY GOGGLES.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.
WASH THOROUGHLY AFTER HANDLING.
HYGROSCOPIC SKIN AND CLOTHING. HYGROSCOPIC SECTION 9. - PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL PROPERTIES MELTING POINT: SOLUBILITY: 234 C WĀTĒR -226130 5.0 - 6.5 PH: SECTION 10. --STABILITY AND REACTIVITY STABILITY STABLE. INCOMPATIBILITIES
PROTECT FROM MOISTURE.
STRONG OXIDIZING AGENTS HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS CARBON MONOXIDE, CARBON DIOXIDE NITROGEN OXIDES SULFUR OXIDES HAZARDOUS POLYMERIZATION WILL NOT OCCUR. SECTION 11. - -TOXICOLOGICAL INFORMATION ACUTE EFFECTS
MAY CAUSE SKIN IRRITATION.
MAY CAUSE EYE IRRITATION.
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. CONTINUED ON NEXT PAGE



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SAFETY SHEET DATA MATERIAL

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CATALOG #: NAME:

H3375 HEPES FREE ACID

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: TL6809000 1-PIPERAZINEETHANESULFONIC ACID, 4-(2-HYDROXYETHYL)-

TOXICITY DATA
ORL-OAL LD50:>316 MG/KG
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR - ECOLOGICAL INFORMATION - - - - - -COMPLETE INFORMATION.

SECTION 12.

DATA NOT YET AVAILABLE.

- - - DISPOSAL CONSIDERATIONS SECTION 13. -

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

- TRANSPORT INFORMATION SECTION 14. -

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

- REGULATORY INFORMATION SECTION 15. -

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK NOES 1983: HZD X9468; NIS 2; TNF 239; NOS 7; TNE 3025; TFE 2233 EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

- OTHER INFORMATION- -SECTION 16.

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