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THE WORLD'S FOREMOST MANUFACTURER OF RESEARCH
BIOCHEMICALS AND DIAGNOSTIC REAGENTS

EMERGENCY PHONE 1-314-771-5765

ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN
WHITEWATER
ACCOUNTS PAYABLE
PO BOX 296
WHITEWATER WI 53190-0295

DATE 12/27/95
CUST#: 2-097-94804
PO#: QH4757

M A T E R I A L S A F E T Y D A T A S H E E T PAGE 1

THIS MSDS IS FOR A COMPONENT OF CATALOG #: LAA-21

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: L5626
NAME: L-LYSINE MONOHYDROCHLORIDE

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 657-27-2
MF: C6H14N2O2
EC NO: 211-510-9

SYNONYMS

DARVYL * LYANINE * LYSINE HYDROCHLORIDE * L-LYSINE HYDROCHLORIDE *
LYSINE MONOHYDROCHLORIDE * L-LYSINE, MONOHYDROCHLORIDE *

SECTION 3. HAZARDS IDENTIFICATION

DATA NOT AVAILABLE

SECTION 4. FIRST-AID MEASURES

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 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 RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.

CONTINUED ON NEXT PAGE

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M A T E R I A L S A F E T Y D A T A S H E E T PAGE 2

THIS MSDS IS FOR A COMPONENT OF CATALOG #: LAA-21

CATALOG #: L5626
NAME: L-LYSINE MONOHYDROCHLORIDE

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. --- HANDLING AND STORAGE ---

REFER TO SECTION 8.

SECTION 8. --- EXPOSURE CONTROLS/PERSONAL PROTECTION ---

CHEMICAL SAFETY GOGGLES.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
AVOID INHALATION.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. --- PHYSICAL AND CHEMICAL PROPERTIES ---

APPEARANCE AND ODOR
WHITE GRANULAR POWDER

PHYSICAL PROPERTIES
MELTING POINT: 263 C (DEC)

SECTION 10. --- STABILITY AND REACTIVITY ---

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
HYDROGEN CHLORIDE GAS

SECTION 11. --- TOXICOLOGICAL INFORMATION ---

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

RTECS #: 0L5650000
LYSINE, MONOHYDROCHLORIDE, L-

CONTINUED ON NEXT PAGE

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MATERIAL SAFETY DATA SHEET PAGE 3

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CATALOG #: L5626
NAME: L-LYSINE MONOHYDROCHLORIDE

TOXICITY DATA

ORL-RAT LD50:10 GM/KG JPMSAE 62,49,73
IPR-RAT LD50:4019 MG/KG ABBIA4 58,253,55
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

SECTION 12. --- ECOLOGICAL INFORMATION ---

DATA NOT YET AVAILABLE.

SECTION 13. --- DISPOSAL CONSIDERATIONS ---

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.

SECTION 14. --- TRANSPORT INFORMATION ---

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. --- REGULATORY INFORMATION ---

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAK
NOES 1983: HZD X3664; NIS 4; TNF 512; NOS 19; TNE 5509; TFE 1728
EPA TSCA SECTION 8(E) CHEMICAL INVENTORY

SECTION 16. --- OTHER INFORMATION ---

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