MATERIAL SAFETY DATA SHEET

ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN
WHITEWATER
ACCOUNTS PAYABLE
PO BOX 296
WHITEWATER WI 53190-0296

EMERGENCY PHONE 1-314-771-5765

DATE 12/27/95
CUST#: 2-907-94804
P0#: QH4757

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

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

SECTION 1. --- --- --- CHEMICAL IDENTIFICATION --- --- ---

CATALOG #: A5131
NAME: L-ARGININE HYDROCHLORIDE

SECTION 2. --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS --- --- ---

CAS #: 1119-34-2
MF: C6H14N4O2
EC NO: 214-273-1

SYNONYMS
ARGinine * ARGININE HYDROCHLORIDE * ARGININE, HYDROCHLORIDE, L- * L-
ARGININE HYDROCHLORIDE * ARGININE MONOHYDRORCHLORIDE * L-ARGININE,
MONOHYDROCHLORIDE * ARGININE HYDROCHLORIDE * ARGININE, HYDROCHLORIDE,
LA-arginine * HK-arginine

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. --- --- --- FIRED FIGHTING MEASURES --- --- ---

EXTINGUISHING MEDIA
WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES
NEAR 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
CONTINUED ON NEXT PAGE
THIS MSDS IS FOR A COMPONENT OF CATALOG #: LAA-21

CATALOG #: A5131
NAME: L-ARGININE HYDROCHLORIDE

RUBBER GLOVES. SHEET 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. NSHA/NOSA-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 CRYSTALLINE POWDER. PHYSICAL PROPERTIES: MELTING POINT: 226 °C TO 230 °C

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 #: CF1995500

CONTINUED ON NEXT PAGE
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CATALOG #: A5131
NAME: L-ARGININE HYDROCHLORIDE

ARGinine, Monohydrochloride, L-

TOXICITY DATA
SRL-RAT LD50:112 GM/KG
IPR-RAT LD50:3793 MG/KG

TARGET ORGAN DATA
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
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

EPA TSCA SECTION 40B CHEMICAL INVENTORY

SECTION 16. - - - - - - - - - OTHER INFORMATION - - - - - - - - -

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA SHALL NOT BE
HOLD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH
THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR
ADDITIONAL TERMS AND CONDITIONS OF SALE.

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MATERIAL HAS BEEN SHIPPED TO THIS ADDRESS:
UNIVERSITY OF WISCONSIN
WHITEWATER
UWM BIOLOGY
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WHITEWATER WI 53190

IRAN OFFICES AT:
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SIGMA-ALDRICH Srl
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