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EMERGENCY PHONE 1-314-771-5765
DATE 01/23/97
CUST#: 2-097-94804
PO#: MCARD 01/22/97

MATERIAL SAFETY DATA SHEET PAGE 1

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: D9628
NAME: L-3,4-DIHYDROXYPHENYLALANINE

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 59-92-7
MF: C9H11NO4
EC NO: 200-445-2

SYNONYMS
ALANINE, 3-(3,4-DIHYDROXYPHENYL)-, (-)-* 2-AMINO-3-(3,4-
DIHYDROXYPHENYL)PROPANOIC ACID * BENDOPA * BIODOPA * BROCADOPA *
CEREPAP * CIDANDOPA * DA * DEADOPA * DIHYDROXY-L-PHENYLALANINE * L-
DIHYDROXYPHENYLALANINE * (-)-3-(3,4-DIHYDROXYPHENYL)-L-ALANINE * BETA-
(3,4-DIHYDROXYPHENYL)-ALPHA-ALANINE * L-ALPHA-DIHYDROXYPHENYLALANINE *
L-BETA-(3,4-DIHYDROXYPHENYL)ALANINE * L-3,4-DIHYDROXYPHENYLALANINE *
L-3,4-DIHYDROXYPHENYL-ALPHA-ALANINE * BETA-(3,4-DIHYDROXYPHENYL)-L-
ALANINE * 3-(3,4-DIHYDROXYPHENYL)-L-ALANINE * 3,4-
DIHYDROXYPHENYLALANINE * (-)-3,4-DIHYDROXYPHENYLALANINE * 3,4-
DIHYDROXY-L-ALANINE * 3,4-DIHYDROXY-L-PHENYLALANINE * (-)-DOPA *
DOPA * DOPA-P * DOPAPLEX * DOPAL * DOPAIDAN * DOPAL-PHER * DOPALINA *
DOPAR * DOPARKINE * DOPARL * DOPASOL * DOPASTON * DOPATRAL * DOPRIN *
ELDOPAL * ELDOPATEC * EURODOPA * HELPO DOPA * L-O-HYDROXYTYROSINE *
3-HYDROXY-L-TYROSINE * INSULAMINA * LARODOPA * LEVODOPA * LEVOPA *
MAIPEDOPA * PARD * PARDOPA * RO 4-6316 * SOBIODOPA * L-TYROSINE, 3-
HYDROXY- (9CI) * VELDOPA *

SECTION 3. HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS
HARMFUL
HARMFUL IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
TARGET ORGAN(S):
HEART
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.

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.

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CATALOG #: D9628
NAME: L-3,4-DIHYDROXYPHENYLALANINE

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.
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/PERSO NAL PROTECTION- - - -

CHEMICAL SAFETY GOGGLES.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
DO NOT BREATHE DUST.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
KEEP TIGHTLY CLOSED.
AIR AND LIGHT SENSITIVE
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR
WHITE POWDER

PHYSICAL PROPERTIES
MELTING POINT: 295 C (DEC)

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

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INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
LIGHT SENSITIVE
AIR SENSITIVE

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

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
HARMFUL IF SWALLOWED.
MAY BE HARMFUL IF INHALED.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
EXPOSURE CAN CAUSE:
NAUSEA, HEADACHE AND VOMITING
TARGET ORGAN(S):
HEART

RTECS #:AY5600000
ALANINE, 3-(3,4-DIHYDROXYPHENYL) -, L-

TOXICITY DATA
O.RL-RAT LD50:1780 MG/KG
I.PR-RAT LD50:624 MG/KG
S.CU-RAT LD50:12 GM/KG
I.VN-RAT LD50:100 MG/KG
O.RL-MUS LD50:2363 MG/KG
I.PR-MUS LD50:588 MG/KG
S.CU-MUS LD50:4449 MG/KG
I.VN-MUS LD50:450 MG/KG
O.RL-RBT LD50:609 MG/KG
O.RL-BWD LD50:100 MG/KG

TARGET ORGAN DATA
SENSE ORGANS AND SPECIAL SENSES (LACRIMATION)
SENSE ORGANS AND SPECIAL SENSES (OTHER EYE EFFECTS)
BEHAVIORAL (SONOMOLENCE)
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
BEHAVIORAL (EXCITEMENT)
BEHAVIORAL (ATAXIA)
BEHAVIORAL (AGGRESSION)
LUNGS, THORAX OR RESPIRATION (DYSPNÆA)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
GASTROINTESTINAL (CHANGES IN STRUCTURE OR FUNCTION OF SALIVARY GLANDS)
GASTROINTESTINAL (NAUSEA OR VOMITING)

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C D A T A G # :  
N A M E :  
D9628  
L-3,4-DIHYDROXYPHENYLALANINE

S K I N  A N D  A P P E N D A G E S  (H A I R )  
M A T E R N A L  E F F E C T S  (O V A R I E S ,  F A L L O P I A N  T U B E S )  
E F F E C T S  O N  F E R T I L I T Y  (P O S T - I M P L A N T A T I O N  M O R T A L I T Y )  
E F F E C T S  O N  E M B R Y O  O R  F E T U S  (F E T O T O X I C I T Y )  
E F F E C T S  O N  N E W B O R N  (P H Y S I C A L )  

S E C T I O N  1 2 .  - - - - - - - - - E C O L O G I C A L  I N F O R M A T I O N - - - - - - - - - 
D A T A  N O T  Y E T  A V A I L A B L E .

S E C T I O N  1 3 .  - - - - - - - - - D I S P O S A L  C O N S I D E R A T I O N S - - - - - - - - - 

S E C T I O N  1 4 .  - - - - - - - - - T R A N S P O R T  I N F O R M A T I O N - - - - - - - - - 

S E C T I O N  1 5 .  - - - - - - - - - R E G U L A T O R Y  I N F O R M A T I O N - - - - - - - - - 
E U R O P E A N  I N F O R M A T I O N  
H A R M F U L  
R 22  
H A R M F U L  I F  S W A L L O W E D .  
R 36/37/38  
S 26  
S 36  

O E L - M A K  
N O B S  1 9 8 3 :  H Z D  X 3 7 9 5 ;  N I S  2 ;  T N F  5 7 ;  N O S  9 ;  T N E  3 8 9 3 ;  T F E  1 5 7 1  
E P A  T S C A  S E C T I O N  8 ( B )  C H E M I C A L  I N V E N T O R Y  

S E C T I O N  1 6 .  - - - - - - - - - O T H E R  I N F O R M A T I O N - - - - - - - - - 
C O N T I N U E D  O N  N E X T  P A G E
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CATALOG #: D9628
NAME: L-3,4-DIHYDROXYPHENYLALANINE

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