



SIGMA-ALDRICH

SIGMA CHEMICAL COMPANY
POST OFFICE BOX 14508
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DATE 01/18/99
CUST#: 0-495-04629
PO#: QH5213

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

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

CATALOG #: L4261
NAME: (D-PHE_{2,6}, PRO₃)-LUTEINIZING HORMONE
RELEASING HORMONE

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

CAS #: 64789-67-9
MF: C59H80N14O13

SYNONYMS
(D-PHE(SUP 2)-PRO(SUP 3)-D-PHE(SUP 6))-LHRH *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

TOXIC
MAY IMPAIR FERTILITY.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
DO NOT BREATHE DUST.

SECTION 4. - - - - - FIRST-AID MEASURES- - - - -

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
SHOES. CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,
CALL A PHYSICIAN.
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.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

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

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES- - - - -

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY

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CATALOG #: L4261
NAME: (D-PHE_{2,6},PRO₃)-LUTEINIZING HORMONE
RELEASING HORMONE

RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
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 - - - - -

NIOSH/MSHA-APPROVED RESPIRATOR.
MECHANICAL EXHAUST.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
CHEMICAL SAFETY GOGGLES.
STORE WITH DESICCANT.

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

APPEARANCE AND ODOR
SOLID.

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

STABILITY
STABLE.

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

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
MAY CAUSE REPRODUCTIVE DISORDERS.
MAY HAVE ACTIONS SIMILAR TO LUTEINIZING HORMONE RELEASING
HORMONE(LH-RH) AND GONADOTROPIN RELEASING HORMONE(GN-RH) WHICH ARE
THE KEY MEDIATORS IN THE NEUROREGULATION OF THE SECRETION OF
GONADOTROPINS, LUTEINIZING HORMONE(LH) AND FOLLICLE STIMULATING
HORMONE(FSH). LH-RH CAN MODIFY SEXUAL BEHAVIOR BY REGULATING PLASMA
GONADOTROPIN AND SEX STEROID LEVELS.
BIOACTIVE PEPTIDE.
THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY
INVESTIGATED.

ADDITIONAL INFORMATION
*VALE, W.W., ET AL., PEPTIDES, STRUCTURE AND BIOLOGICAL FUNCTION,

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CATALOG #: L4261
NAME: (D-PHE2,6,PRO3)-LUTEINIZING HORMONE
RELEASING HORMONE

PROCEEDINGS OF THE SIXTH AMERICAN PEPTIDE SYMPOSIUM, GROSS, E. AND
MEIENHOFER, M., EDS., 781 (1979).

RTECS #: OK6675000
LUTEINIZING HORMONE-RELEASING FACTOR(PIG)
2-D-PHENYLALANINE-3-L-PROLINE-6-D-PHENYLALANINE

TARGET ORGAN DATA
EFFECTS ON FERTILITY (OTHER MEASURES OF FERTILITY)
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 -----

EUROPEAN INFORMATION

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

TOXIC

R 60

MAY IMPAIR FERTILITY.

S 45

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

S 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

S 22

DO NOT BREATHE DUST.

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

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We are Committed to the Success of our Customers through Science, Technology and Service.



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CATALOG #: L4261
NAME: (D-PHE2,6,PRO3)-LUTEINIZING HORMONE
RELEASING HORMONE

P.O. BOX 355
MILWAUKEE, WISCONSIN 53201, USA

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