MATERIAL SAFETY DATA SHEET  PAGE 1

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

CATALOG #: L0387
NAME: D-PHE2, D-ALA6-LUTEINIZING HORMONE RELEASING HORMONE
SOLUBLE: 1:1 ACN:H2O+.075%TFA

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

CAS #: 54784-44-0
MF: C59H79N15O13

SYNONYMS: LUTEINIZING HORMONE-RELEASING HORMONE (Pig), 2-D-PHENYLALANINE-6-D-
ALANINE- * (D-PHE(SUP 2))-(D-ALA(SUP 6))-LHRH * (D-PHE(SUP 2))-(D-
ALA(SUP 6))-LUTEINIZING HORMONE-RELEASING HORMONE * WY-18,185 *

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.

CONTINUED ON NEXT PAGE

7132
CATALOG #: L0387
NAME: D-PHE2, D-ALA6-LUTEINIZING HORMONE RELEASING HORMONE SOLUBLE- 1:1 ACN:H2O+.075% TFA

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. 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.

PHYSICAL PROPERTIES
SOLUBILITY:
SOLUBLE- 1:1 ACN:H2O+.075% TFA

SECTION 10. STABILITY AND REACTIVITY
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

CONTINUED ON NEXT PAGE

7133
CATALOG #: L0387
NAME: D-PHE2, D-ALA6-LUTEINIZING HORMONE RELEASING HORMONE
SOLUBLE- 1:1 ACN:H2O+.075%TPA

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

RTECS #: OK66000000
LUTEINIZING HORMONE-RELEASING HORMONE, (D-PHE(SUP 2))-(D-ALA(SUP 6))-

TARGET ORGAN DATA
EFFECTS ON FERTILITY (FEMALE FERTILITY INDEX)
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
R60
MAY IMPAIR FERTILITY.
S45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
S36/37/39
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
S22

CONTINUED ON NEXT PAGE

We are Committed to the Success of our Customers through Science, Technology and Service.
SIGMA CHEMICAL COMPANY
POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

CUST#: 0-495-04629
PO#: QH5213

MATERIAL SAFETY DATA SHEET PAGE 4

CATALOG #: L0387
NAME: D-PHE2,D-ALA6-LUTEINIZING HORMONE
       RELEASING HORMONE
       SOLUBLE 1:1 ACN:H2O+.075%TFA

DO NOT BREATHE DUST.

SECTION 16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
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MATERIAL WAS SHIPPED TO THIS ADDRESS:
UNIV OF WISCONSIN - WHITESTOWER
MIKE WOLLER
UPHAM HALL
RM 316
800 W MAIN ST
WHITESTOWER, WI 53190

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