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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

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 04448

NAME: D-Pyr-OEt

SYNONYMS: D-Pyroglutamic acid ethyl ester
(R)-(-)-Ethyl-2-pyrrolidone-5-carboxylate

24 HOUR EMERGENCY TELEPHONE: (800) 535-5053(USA)
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CUSTOMER SERVICE: (630) 766-2112

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 68766-96-1

MF: C₇H₁₁NO₃

MW: 157.20

PURITY:

SECTION 3. HAZARDS IDENTIFICATION

NOT AVAILABLE.

POTENTIAL HEALTH EFFECTS

THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN INVESTIGATED. USE APPROPRIATE PROCEDURES TO PREVENT OPPORTUNITIES FOR DIRECT CONTACT WITH THE SKIN OR EYES AND TO PREVENT INHALATION.

SECTION 4. FIRST-AID MEASURES

EYES: NOT AVAILABLE.

SKIN: NOT AVAILABLE.

INHALATION: NOT AVAILABLE.

INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS AND ALERT, RINSE MOUTH AND DRINK 2-4 CUPFULS OF MILK OR WATER.

NOTES FOR PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: NOT AVAILABLE

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

FLAMMABLE LIMITS IN AIR, BY % VOLUME
UPPER: NOT AVAILABLE
LOWER: NOT AVAILABLE

EXTINGUISHING MEDIA: NOT AVAILABLE.

GENERAL INFORMATION: AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR.

SECTION 6. ACCIDENTAL RELEASE MEASURES

USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS INDICATED IN SECTION 8.

SPILLS AND LEAKS: SWEEP UP, THEN PLACE INTO A SUITABLE CONTAINER FOR DISPOSAL.

SECTION 7. HANDLING AND STORAGE

HANDLING NOT AVAILABLE.

STORAGE KEEP COOL AND DRY

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.

EYES: WEAR SAFETY GLASSES AND CHEMICAL GOGGLES IF SPLASHING IS POSSIBLE.

SKIN AND CLOTHING: WEAR APPROPRIATE PROTECTIVE GLOVES AND CLOTHING TO PREVENT SKIN EXPOSURE.
WEAR APPROPRIATE PROTECTIVE CLOTHING TO MINIMIZE CONTACT WITH SKIN.

RESPIRATORS: WEAR A NIOSH/MSHA OR EUROPEAN STANDARD EN 149 APPROVED FULL-FACEPIECE AIRLINE RESPIRATOR IN THE POSITIVE PRESSURE MODE WITH EMERGENCY ESCAPE PROVISIONS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

pH: NOT AVAILABLE

VAPOR PRESSURE: NEGLIGIBLE.

VISCOSITY: NOT AVAILABLE

BOILING POINT:

FREEZING / MELTING
POINT

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL
STABILITY:

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

CONDITIONS TO
AVOID

INCOMPATIBLE MATERIALS.

INCOMPATIBILITY
WITH OTHER
MATERIALS:

OXIDIZING AGENTS, REDUCING AGENTS, BASES, ALKALI METALS.

HAZARDOUS
DECOMPOSITION
PRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE.

HAZARDOUS
POLYMERIZATION:

HAS NOT BEEN REPORTED.

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 68766-96-1

LD50/LC50:

CAS# 68766-96-1 :
NOT AVAILABLE.

CARCINOGENICITY:

CAS# 68766-96-1 : NOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA. SEE ACTUAL
ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION 12. ECOLOGICAL INFORMATION

DATA NOT YET AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 14. TRANSPORT INFORMATION

NO INFORMATION AVAILABLE.

SECTION 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA:

CAS# 68766-96-1 IS LISTED ON THE TSCA INVENTORY.

EUROPEAN/INTERNATIONAL REGULATIONS

EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES

HAZARD SYMBOLS: NOT AVAILABLE.

RISK PHRASES:

SAFETY PHRASES:

S 24/25 AVOID CONTACT WITH SKIN AND EYES.

WGK (WATER DANGER/PROTECTION)

CAS# 68766-96-1 : NO INFORMATION AVAILABLE.

UNITED KINGDOM OCCUPATIONAL EXPOSURE LIMITS

UNITED KINGDOM MAXIMUM EXPOSURE LIMITS

CANADA - DSL/NDL

CAS# 68766-96-1 IS LISTED ON CANADA'S DSL LIST.

CANADIAN INGREDIENT DISCLOSURE LIST

CAS# 68766-96-1 : IS NOT LISTED ON CANADA'S INGREDIENT DISCLOSURE LIST.

EXPOSURE LIMITS

SECTION 16. OTHER INFORMATION

MSDS LEGEND:

MW: MOLECULAR WEIGHT
MF: MOLECULAR FORMULA
VOC: VOLATILE ORGANIC COMPOUNDS
ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL
HYGIENISTS
CAS: CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV: THRESHOLD LIMIT VALUE (ACGIH)

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