Material Safety Data Sheet

Name: HUMULIN U
Company: LILLY ELI AND PHARMACEUTICAL D

MSDS Safety Information
FSC: 6505
NIIN: 01-266-6526
MSDS Date: 10/01/1992
MSDS Num: BWMTT
Product ID: HUMULIN U
MN: 01
Responsible Party
Cage: 75602
Name: LILLY ELI AND CO PHARMACEUTICAL DIV
Address: LILLY CORPORATE CENTER
City: INDIANAPOLIS IN 46285
Info Phone Number: 317-276-2000
Emergency Phone Number: 317-276-2000
Review Ind: Y
Published: Y

Contractor Summary
Cage: 75602
Name: LILLY ELI AND CO PHARMACEUTICAL DIV
Address: LILLY CORPORATE CENTER
City: INDIANAPOLIS IN 46285
Phone: 317-276-2000

Item Description Information
Item Name: INSULIN HUMAN ZINC SUSPENSION,EXTENDED,USP
Unit of Issue: VI
UI Container Qty: 1
Type of Container: VIAL

Ingredients
Cas: 9009-65-8
RTECS #: UK9450000
Name: PROTAMINE SULFATE
Wt: 0-1.5
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
-----------------------------
Cas: 56-81-5
RTECS #: MA8050000
Name: GLYCERIN
Wt: 1.4-1.8
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 (MIST)
ACGIH TLV: 10 MG/M3 (MIST) 9394
-----------------------------
Cas: 1319-77-3
RTECS #: GO5950000
Name: CRESOL, ALL ISOMERS (CRESYLIC ACID) (SARA III)
Wt: 0-0.22
Other REC Limits: NONE RECOMMENDED
OSHA PEL: S, 5 PPM
ACGIH TLV: S, 5 PPM; 9394
EPA Rpt Qty: 1000 LBS
DOT Rpt Qty: 1000 LBS
Cas: 99-76-3
RTECS #: DH24500000
Name: P-HYDROXYBENZOIC ACID, METHYL ESTER (METHYLPARABEN)
% Wt: 0-0.1
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

-------------------------------
Cas: 108-95-2
RTECS #: SJ33270000
Name: PHENOL (SARA III) (SARA III)
% Wt: 0-0.28
Other REC Limits: NONE RECOMMENDED
OSHA PEL: S, 5 PPM
ACGIH TLV: S, 5 PPM; 9394
EPA Rpt Qty: 1000 LBS
DOT Rpt Qty: 1000 LBS

-------------------------------
Cas: 7732-18-5
RTECS #: ZC01100000
Name: WATER
% Wt: 95
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

-------------------------------
Cas: 11061-68-0
Name: ZINC INSULIN
% Wt: 0.1-0.4
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Health Hazards Data
LD50 LC50 Mixture: UNKNOWN
Route Of Entry Inds - Inhalation: NO
Skin: YES
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: NONE REPORTED
Signs And Symptoms Of Overexposure: NONE REPORTED
Medical Cond Aggravated By Exposure: NONE KNOWN.
First Aid: EYES: IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES
WHILE LIFTING EYELIDS OPEN. SKIN: WASH WITH SOAP AND PLENTY OF WATER.
INHALATION: REMOVE TO FRESH AIR. INGESTION: CONTACT A PHYSICIAN OR POISON CONTROL CENTER. DO NOT INDUCE VOMITING. IF AVAILABLE, ADMINISTER ACTIVATED CHARCOAL (6-8 HEAPING TEASPOONS) WITH 2-3 GLASSES OF WATER.

Handling and Disposal
Spill Release Procedures: PROVIDE VENTILATION AND RESPIRATORY, SKIN AND EYE
PROTECTION TO PREVENT OVEREXPOSURE. KEEP THE PRODUCT OUT OF DRAINS; PREVENT ENTRY TO SURFACE WATER, GROUNDWATER AND SOIL. SMALL SPILLS SHOULD BE ABSORBED WITH PAPER TOWELS OR OTHER APPROPRIATE MEDIA.

Waste Disposal Methods: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. MATERIAL IS NOT A RCRA HAZARDOUS WASTE FOR DISPOSAL.

Handling And Storage Precautions: NONE SPECIFIED BY MANUFACTURER.

Other Precautions: NONE

Fire and Explosion Hazard Information
Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG OR HALON.

Fire Fighting Procedures: NONE

Unusual Fire/Explosion Hazard: NONE

Control Measures
Respiratory Protection: NIOSH-APPROVED RESPIRATOR OR LABORATORY FUME HOOD.

Ventilation: LABORATORY FUME HOOD OR LOCAL EXHAUST VENTILATION.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: SAFETY GLASSES.

Other Protective Equipment: IMPERVIOUS BODY COVERING TO PREVENT SKIN CONTACT.

Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER HANDLING THIS MATERIAL.

Supplemental Safety and Health: NONE

Physical/Chemical Properties
HCC: N1

M.P./F.P Text: DECOMPOSES

Spec Gravity: 1.004-1.007

PH: 7-7.8

Solubility in Water: SLIGHTLY SOLUBLE

Appearance and Odor: CLEAR SOLUTIONS TO WHITE MILKY SUSPENSIONS.

Reactivity Data
Stability Indicator: YES

Stability Condition To Avoid: HIGH TEMPERATURES.

Materials To Avoid: STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products: MAY EMIT TOXIC FUMES WHEN HEATED TO DECOMPOSITION.

Hazardous Polymerization Indicator: NO

Toxicological Information
Ecological Information

MSDS Transport Information
Regulatory Information

Other Information
Transportation Information
Responsible Party Cage: 75602

Trans ID NO: 120194

Product ID: HUMULIN U

MSDS Prepared Date: 10/01/1992

Review Date: 02/28/1995

MFN: 1

Net Unit Weight: 0.07 LB

Multiple KIT Number: 0

Review IND: Y

Unit Of Issue: VI

Container QTY: 1

Type Of Container: VIAL
Additional Data: NONE

**Detail DOT Information**
DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

**Detail IMO Information**
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

**Detail IATA Information**
IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

**Detail AFI Information**
AFI PSN Code: ZZZ
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

**HAZCOM Label**
Product ID: HUMULIN U
Cage: 75602
Company Name: LILLY ELI AND CO PHARMACEUTICAL DIV
Street: LILLY CORPORATE CENTER
City: INDIANAPOLIS IN
Zipcode: 46285
Health Emergency Phone: 317-276-2000
Label Required IND: Y
Date Of Label Review: 12/16/1998
Status Code: C
Label Date: 12/16/1998
Origination Code: G
Hazard And Precautions: NONE REPORTED

**Disclaimer**
(provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense, nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.