



An ISO 9001:2000
Certified Company

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300
or 202-483-7616

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: HEPTANES, 25% min n-Heptane
Catalog # Valid for all catalog numbers starting with 391 including 391000REA

General Information

Company's Name: PHARMCO PRODUCTS, INC.	Safety Data Review Date: 01/02/02
Company's Street: 58 VALE RD.	Preparer's Company: PHARMCO PRODUCTS, INC.
Company's City: BROOKFIELD	Preparer's St Or P. O. Box: 58 VALE RD.
Company's State: CT	Preparer's City: BROOKFIELD
Company's Zip Code: 06804	Preparer's State: CT
Company's Emerg Ph #: (203) 740-3471	Preparer's Zip Code: 06804
Company's Info Ph #: (203) 740-3471	
Date MSDS Revised: PS 01/02/02	

Ingredients/Identity Information

Ingredient: Heptanes all isomers (n-heptane 25.0% min.)	CAS Number: 142-82-5
Ingredient Sequence Number: 01	OSHA PEL: 500 PPM
Percent: 100	ACGIH TLV: 400 PPM/500STEL;9394
NIOSH (RTECS) Number: MI7700000	Other Recommended Limit: NONE RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS LIQUID.	Decomposition Temperature: UNKNOWN
Boiling Range: 92.3-100C	Evaporation Rate And Ref: 2.8 (BUTYL ACETATE = 1)
Melting Point: -132F, -91C	Solubility In Water: NEGLIGIBLE;0.005%
Vapor Pressure (MM Hg/70 F): 40	Percent Volatiles By Volume: 100
Vapor Density (Air=1): 3.4	Autoignition Temperature: Not Available
Specific Gravity: 0.69-0.72	

Fire and Explosion Hazard Data

Flash Point: 25.0F, -4C
Flash Point Method: CC
Lower Explosive Limit: 1.0
Upper Explosive Limit: 6.7
Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
USE WATER WITH CAUTION. HEPTANE CAN FLOAT ON WATER AND REIGNITE.
Special Fire Fighting Proc: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire And Expl Hazrds: COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. VAPORS HEAVIER THAN AIR. CAN

TRAVEL A LONG DISTANCE AND FLASHBACK.

Reactivity Data

Stability: YES	PHOSPHOROUS.
Cond To Avoid (Stability): HIGH HEAT, SPARKS, OPEN FLAMES AND OTHER SOURCES OF IGNITION	Hazardous Decomp Products: CARBON MONOXIDE, CARBON DIOXIDE, INCOMPLETELY
Materials To Avoid: STRONG OXIDIZING AGENTS, ACIDS, LIQUID CHLORINE, RED	BURNED CARBON PRODUCTS. Hazardous Poly Occur: NO

Health Hazard Data

Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: INHAL: ABOVE 5000PPM MAY CAUSE ASPHYXIATION,
MAY CAUSE IRRITATION. SKIN ABSORPTION MAY OCCUR. PROLONGED EXPOSURE MAY CAUSE
DEFATTING. EYES: MAY CAUSE IRRITATION. INGEST: GI IRRITANT. MAY CAUSE CNS
DEPRESSION. VOMITING AFTER INGEST MAY CAUSE DEATH.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE OF THE INGREDIENTS IN THIS PRODUCT IS
LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.
HEADACHE, GIDDINESS, NARCOSIS, GASOLINE-LIKE TASTE IN MOUTH. INGEST: ABDOMINAL
PAIN, NAUSEA, VOMITING, DIARRHEA. ASPIRATION OF C6-8 ALIPHATIC HYDROCARBONS HAS
CAUSED IMMEDIATE DEATH DUE TO LUNG AND HEART FAILURE.
Med Cond Aggravated By Exp: INDIVIDUALS WITH A HISTORY OF SKIN AND
RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.
Emergency/First Aid Proc: EYES/SKIN: FLUSH WITH PLENTY OF WATER FOR AT
LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEE DOCTOR. INHALATION: REMOVE
DRINK 1 OR 2 GLASSES OF MILK OR WATER. DO NOT INDUCE VOMITING. SEE DOCTOR
IMMEDIATELY.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: REMOVE PERSONNEL. ELIMINATE IGNITION
SOURCES. VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB IN
INERT MATERIAL AND PLACE IN APPROPRIATE DISPOSAL CONTAINER AND COVER.
Neutralizing Agent: NONE
Waste Disposal Method: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE
OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
MANUFACTURER RECOMMENDS INCINERATION. EPA CODE D001.
Precautions-Handling/Storing: STORE IN COOL, DRY, WELL VENTILATED AREA.
PROTECT FROM PHYSICAL DAMAGE, HEAT, IGNITION SOURCES AND INCOMPATIBLE
MATERIALS. KEEP CONTAINERS CLOSED.
Other Precautions: MATERIAL IS EXTREMELY FLAMMABLE. VAPORS MAY IGNITE
EXPLOSIVELY. PREVENT BUILDUP OF VAPORS. EMPTY CONTAINERS RETAIN RESIDUE,
TREAT AS IF THEY WERE FULL. AVOID EYE AND SKIN CONTACT. DO NOT BREATHE
VAPORS. GROUND AND BOND CONTAINERS.

Control Measures

Respiratory Protection: NIOSH/MSHA-APPROVED RESPIRATOR OR SCBA AS
APPROPRIATE FOR EXPOSURE OF CONCERN.
Ventilation: MECHANICAL (GENERAL) VENTILATION OR LOCAL EXHAUST VENTILATION
TO KEEP EXPOSURE LEVELS BELOW PEL. USE EXPLOSION-PROOF EQ.

Protective Gloves: RUBBER GLOVES.
Eye Protection: CHEMICAL SAFETY GOGGLES.
Other Protective Equipment: PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT. EYE BATH AND SAFETY SHOWER.
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING.
LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.
Suppl. Safety & Health Data: NONE.

Transportation Data

Trans Data Review Date: 94130	IATA UN ID Number: 1206
DOT PSN Code: HAD	IATA Proper Shipping Name: HEPTANES
DOT Proper Shipping Name: HEPTANES	IATA UN Class: 3
DOT Class: 3	IATA Label: FLAMMABLE LIQUID
DOT ID Number: UN1206	AFI PSN Code: NDD
DOT Pack Group: II	AFI Prop. Shipping Name: HEPTANES
DOT Label: FLAMMABLE LIQUID	AFI Class: 3
IMO PSN Code: HXF	AFI ID Number: UN1206
IMO Proper Shipping Name: HEPTANES	AFI Pack Group: II
IMO Regulations Page Number: 3235	AFI Label: FLAMMABLE LIQUID
IMO UN Number: 1206	AFI Basic Pac Ref: 7-7
IMO UN Class: 3.2	MMAC Code: NR
IMO Subsidiary Risk Label: -	Additional Trans Data: NONE
IATA PSN Code: NDD	

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

Common Name: HEPTANE
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-Moderate: X
Reactivity Hazard-None: X
Special Hazard Precautions: INHAL:ABOVE 5000PPM MAY CAUSE ASPHYXIATION, MAY CAUSE IRRITATION.SKIN ABSORPTION MAY OCCUR.PROLONGED EXPOSURE MAY CAUSE DEFATTING.EYES:MAY CAUSE IRRITATION.INGEST:GI IRRITANT.MAY CAUSE CNS FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEE DOCTOR. INHALATION: REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR. INGESTION: DRINK 1 OR 2 GLASSES OF MILK OR WATER . DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY.
Protect Eye: Y Protect Skin: Y
The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.