

PHOENIX INDUSTRIES INC

-- HEXANE, ACS

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MSDS Safety Information
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FSC: 6810
NIIN: 00-949-0257
MSDS Date: 04/15/1998
MSDS Num: CJHXQ
Product ID: HEXANE, ACS
MFN: 01
Responsible Party
Cage: OYED2
Name: PHOENIX INDUSTRIES INC
Address: 11028 LEADBETTER RD UNIT 10
City: ASHLAND VA 23005
Info Phone Number: 804-264-5183
Emergency Phone Number: (800)424-9300
Chemtrec IND/Phone: (800)424-9300
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: OYED2
Name: PHOENIX INDUSTRIES INC
Address: 1519 CHAMBERLAYNE PARKWAY
City: RICHMOND VA 23222
Phone: 804-264-5183
Contract Number: SP0450-99-M-NF11

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Item Description Information
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Item Manager: S9G
Item Name: HEXANE,ACS
Unit of Issue: GL
UI Container Qty: 1 GALLON

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Ingredients
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Cas: 110-54-3
RTECS #: MN9275000
Name: HEXANE
> Wt: 99.
OSHA PEL: 1800 MG/M3;500 PPM
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB

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Health Hazards Data
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LD50 LC50 Mixture: LD50 (ORAL, RAT): 28710 MG/KG
Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: INHALATION OF VAPORS IRRITATE THE RESPIRATORY TRACT.

OVEREXPOSURE MAY CAUSE LIGHTHEADEDNESS, NAUSEA, HEADACHE AND BLURRED VISION. GREATER EXPOSURE MAY CAUSE MUSCLE WEAKNESS, NUMBNESS OF EXTREMITIES, UNCONSCIOUSNESS & DEATH. INGESTION MAY PRODUCE ABDOMINAL PAIN, NAUSEA. ASPIRATION INTO THE LUNGS CAN PRODUCE SEVERE LUNG DAMAGE & IS A MEDICAL EMERGENCY. OTHER SYMPTOMS EXPECTED TO PARALLEL INHALATION. SKIN CONTACT MAY CAUSE REDNESS, IRRITATION WITH DRYNESS, CRACKING, . MAY BE ABSORBED THROUGH SKIN WITH POSSIBLE SYSTEMIC EFFECTS. VAPORS MAY CAUSE EYE IRRITATION. SPLASHES MAY CAUSE REDNESS AND PAIN.

Explanation Of Carcinogenicity: NONE STATED BY MANUFACTURER.

Signs And Symptoms Of Overexposure: INHALATION OF VAPORS IRRITATE THE RESPIRATORY TRACT. OVEREXPOSURE MAY CAUSE LIGHTHEADEDNESS, NAUSEA, HEADACHE AND BLURRED VISION. GREATER EXPOSURE MAY CAUSE MUSCLE WEAKNESS, NUMBNESS OF EXTREMITIES, UNCONSCIOUSNESS & DEATH. INGESTION MAY PRODUCE ABDOMINAL PAIN, NAUSEA. ASPIRATION INTO THE LUNGS CAN PRODUCE SEVERE LUNG DAMAGE & IS A MEDICAL EMERGENCY. OTHER SYMPTOMS EXPECTED TO PARALLEL INHALATION. SKIN CONTACT MAY CAUSE REDNESS, IRRITATION WITH DRYNESS, CRACKING, . MAY BE ABSORBED THROUGH SKIN WITH POSSIBLE SYSTEMIC EFFECTS. VAPORS MAY CAUSE EYE IRRITATION. SPLASHES MAY CAUSE REDNESS AND PAIN.

Medical Cond Aggravated By Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE. MAY AFFECT THE DEVELOPING FETUS.

First Aid: INHALED-REMOVE TO FRESH AIR. KEEP PERSON CALM. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING DIFFICULT. SKIN-FUSH AREA WITH SOAP & WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. WASH CLOTHES BEFORE REUSE. EYES-IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPERIENCE. INGESTED-ASPIRATION HAZARD. DO NOT INDUCE VOMITING! IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. CALL A PHYSICIAN IMMEDIATELY.

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Handling and Disposal
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Spill Release Procedures: VENTILATE AREA. REMOVE SOURCES OF IGNITION. WEAR APPROPRIATE PERSONAL PROTECTIVE GEAR. ISOLATE HAZARD AREA. KEEP UNECESSARY PERSONNEL FROM ENTERING. CONTAIN & RECOVER WHEN POSSIBLE. USE NON-SPARKING TOOLS & EQUIPMENT. COLLECT IN APPROPRIATE CONTAINER OR ABSORB WITH INERT MATERIAL AND PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT FLUSH TO SEWER. IF NOT IGNITED, USE WATER SPRAY TO DISPERSE VAPORS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE AND SENT TO A RCRA APPROVED INCINERATOR OR DISPOSED OF IN A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTAMINATION OF THE PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE & LOCAL REGULATIONS MAY DIFFER FROM FEDERAL REGULATIONS.

Handling And Storage Precautions: PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY, WELL-VENTILATED AREA; AWAY FROM DIRECT SUNLIGHT & ACUTE FIRE HAZARDS. STORE IN TIGHTLY CLOSED CONTAINERS. SEPARATE FROM OXIDIZING MATERIALS. CONTAINERS SHOULD BE BONDED & GROUNDED FOR TRANSFERS. STORAGE & USE AREA SHOULD BE NO SMOKING AREAS.

Other Precautions: USE NON-SPARKING TOOLS & EQUIPMENT. CONTAINERS MAY BEHAZARDOUS WHEN EMPTIED SINCE THEY CONTAIN PRODUCT RESIDUES. OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT. DO NOT ATTEMPT TO CLEAN EMPTY CONTAINERS. DO NOT PRESSURIZE, CUT, BRAZE, SOLDER, DRILL, GRIND OR EXPOSURE TO SOURCES OF IGNITION.

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Fire and Explosion Hazard Information
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Flash Point Method: CC
Flash Point: =-22.2C, -8.F
Autoignition Temp: =225.C, 437.F
Lower Limits: 1.1
Upper Limits: 7.5
Extinguishing Media: DRY CHEMICAL, FOAM OR CARBON DIOXIDE, WATER MAY BE INEFFECTIVE. VAPORS CAN FLOW ALING SURGFACES TO DISTANT IGNITION SOURCE AND FLASH BACK.
Fire Fighting Procedures: IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CO NTAINER COOL. APOR EXPLOSION HAZARD EXISTS INDOORS, OUTDOORS, OR IN SEWERS.
Unusual Fire/Explosion Hazard: ABOVE FLASH POINT,VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS ABOVE.CONTACT WITH OXIDIZING MATERIALS MAY CAUSE EXTREMELY VIOLENT COMBUSTION. EXPLODES WHEN MIXED AT 28C WITH DINITROGEN TETRAOXIDE. SENSITIVE TO STATIC DISCHARGE.V APOR MAY CAUSEFLASH FIRE. DANGEROUS FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

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Control Measures
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Respiratory Protection: IF THE EXPOSURE LIMIT IS EXCEEDED, WEAR A SUPPLIED AIR,FULL-FACEPIECE RESPIRATOR, AIRLINED HOOD, OR FULL-FACEPIECE SELF-CONTAINED BREATHING APPARATUS. THIS SUBSTANCE HAS POOR WARNING PROPERTIES.
Ventilation: LOCA AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS.
Protective Gloves: IMPERVIOUS
Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD
Other Protective Equipment: MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT.
Supplemental Safety and Health: US REGULATIONS (CERCLA) REQUIRE REPORTING SPILLS & RELEASES TO SOIL, WATER & AIR IN EXCESS OF REPORTABLE QUANTITIES. THE TOLL FREE NUMBER FOR THE US COAST GUARD NATIONAL RESPONSE CENTER IS (800-424-8802).

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Physical/Chemical Properties
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HCC: F2
Boiling Point: >67.C, 152.6F
B.P. Text: 67-69C
Spec Gravity: 0.664 @ 15.6C/15.6C
Solubility in Water: INSOLUBLE
Appearance and Odor: CLEAR, COLORLESS LIQUID, GASOLINE-LIKE ODOR.

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Reactivity Data
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Stability Indicator: YES
Stability Condition To Avoid: HEAT, FLAMES, IGNITION SOURCES AND IMCOMPATIBLES.STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. HEAT WILL CONTRIBUTE TO INSTABILITY.
Materials To Avoid: STRONG OXIDIZERS.
Hazardous Decomposition Products: MAY PRODUCE ACRID SMOKE AND IRRITATING FUMES WHEN HEATED TO DECOMPOSITION.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: WILL NOT OCCUR.

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Toxicological Information
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Toxicological Information: LD50 ORAL RAT: 28710 MG/KG; LC50 INHALATION RAT:
48000 PPM/4H; IRRITATION EYE RABBIT (STD DRAIZE), 10 MG, MILD. INVESTIGATED
AS A TUMORIGEN, MUTAGEN AND REPRODUCTIVE EFFECTOR.

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Ecological Information
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Ecological: WHEN RELEASED TO THE SOIL, THIS MATERIAL MAY BIODEGRADE TO A
MODERATE EXTENT. WHEN RELEASED TO THE SOIL, THIS MATERIAL IS NOT EXPECTED
TO LEACH INTO GROUNDWATER. WHEN RELEASED TO THE SOIL, THIS MATERIAL IS
EXPECTED TO EVAPORATE. WHEN RELEASED TO WATER, THIS MATERIAL IS EXPECTED
TO QUICKLY EVAPORATE. WHEN RELEASED TO WATER, THIS MATERIAL MAY BIODEGRADE
TO A MODERATE EXTENT. WHEN RELEASED TO WATER, THIS MATERIAL IS EXPECTED
TO HAVE A HALF-LIFE BETWEEN 1 & 10 DAYS. THE MATERIAL HAS AN ESTIMATED
BIOCONCENTRATION FACTOR OF LESS THAN 100.

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MSDS Transport Information
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Transport Information: DOT, LAND: HEXANES 3, UN1208, PG II. ICAO, AIR:
HEXANES,3, UN1208, PG II.

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Regulatory Information
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Sara Title III Information: SARA 302: RQ-NO; TPQ-NO.
SARA 313: LIST-YES, CHEMICAL CATEGORY-NO.
Federal Regulatory Information: RCRA/CERCLA RQ: 5000 LBS. TSCA 261.33:
NO;
8(D):NO.
State Regulatory Information: NONE SPECIFIED BY MANUFACTURER.

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Other Information
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Other Information: NONE SPECIFIED BY MANUFACTURER.

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Transportation Information
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Responsible Party Code: 0YED2
Trans ID NO: 146320
Product ID: HEXANE, ACS
MSDS Prepared Date: 04/15/1998
Review Date: 07/19/1999
MFN: 1
Net Unit Weight: 5.84 LB
Multiple KIT Number: 0
Unit Of Issue: GL
Container QTY: 1 GALLON
Additional Data: PROPER SHIPPING NAME IS PER MANUFACTURER'S MSDS.

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Detail DOT Information
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DOT PSN Code: HEX
DOT Proper Shipping Name: HEXANES
Hazard Class: 3
UN ID Num: UN1208
DOT Packaging Group: II

Label: FLAMMABLE LIQUID
Special Provision: T8
Packaging Exception: 150
Non Bulk Pack: 202
Bulk Pack: 242
Max Qty Pass: 5 L
Max Qty Cargo: 60 L
Vessel Stow Req: E

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Detail IMO Information
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IMO PSN Code: IBK
IMO Proper Shipping Name: HEXANES
IMDG Page Number: 3129
UN Number: 1208
UN Hazard Class: 3.1
IMO Packaging Group: II
Subsidiary Risk Label: -
EMS Number: 3-07
MED First Aid Guide NUM: 310

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Detail IATA Information
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IATA PSN Code: NKG
IATA UN ID Num: 1208
IATA Proper Shipping Name: HEXANES
IATA UN Class: 3
IATA Label: FLAMMABLE LIQUID
UN Packing Group: II
Packing Note Passenger: 305
Max Quant Pass: 5L
Max Quant Cargo: 60L
Packaging Note Cargo: 307

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Detail AFI Information
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AFI PSN Code: NKG
AFI Proper Shipping Name: HEXANES
AFI Hazard Class: 3
AFI UN ID NUM: UN1208
AFI Packing Group: II
Special Provisions: P5
Back Pack Reference: A7.3

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HAZCOM Label
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Product ID: HEXANE, ACS
Cage: 0YED2
Company Name: PHOENIX INDUSTRIES INC
Street: 1519 CHAMBERLAYNE PARKWAY
City: RICHMOND VA
Zipcode: 23222
Health Emergency Phone: (800)424-9300
Label Required IND: Y
Date Of Label Review: 07/19/1999
Status Code: A
Year Procured: 1999

Origination Code: F
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: DANGER
Respiratory Protection IND: YES
Health Hazard: Slight
Contact Hazard: Slight
Fire Hazard: Severe
Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: CNS, LUNGS, SKIN, EYES. INHALATION OF VAPORS IRRITATE THE RESPIRATORY TRACT. OVEREXPOSURE MAY CAUSE LIGHTEADEDNESS, NAUSEA, HEADACHE AND BLURRED VISION. GREATER EXPOSURE MAY CAUSE MUSCLE WEAKNESS, NUMBNESS OF EXTREMITIES, UN CONSCIOUSNESS & DEATH. INGESTION MAY PRODUCE ABDOMINAL PAIN, NAUSEA. ASPIRATION INTO THE LUNGS CAN PRODUCE SEVERE LUNG DAMAGE & IS A MEDICAL EMERGENCY. OTHER SYMPTOMS EXPECTED TO PARALLEL INHALATION. SKIN CONTACT MAY CAUSE REDNESS, IRRITATION WITH DRYNESS, CRACKING, . MAY BE ABSORBED THROUGH SKIN WITH POSSIBLE SYSTEMIC EFFECTS. VAPORS MAY CAUSE EYE IRRITATION. SPLASHES MAY CAUSE REDNESS AND PAIN.

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