

PHOENIX INDUSTRIES INC -- HEXANE, ACS -- 6810-00-949-0257

===== Product Identification =====

Product ID:HEXANE, ACS
MSDS Date:04/15/1998
FSC:6810
NIIN:00-949-0257
Status Code:A
MSDS Number: CJHXQ
=== Responsible Party ===
Company Name:PHOENIX INDUSTRIES INC
Address:11028 LEADBETTER RD UNIT 10
City:ASHLAND
State:VA
ZIP:23005
Country:US
Info Phone Num:804-264-5183
Emergency Phone Num:(800)424-930
0
Chemtrec Ind/Phone:(800)424-9300
CAGE:0YED2
=== Contractor Identification ===
Company Name:PHOENIX INDUSTRIES INC
Address:1519 CHAMBERLAYNE PARKWAY
Box:City:RICHMOND
State:VA
ZIP:23222
Country:US
Phone:804-264-5183/FAX: 264-5535
Contract Num:SP0450-99-M-NF11
CAGE:0YED2

===== Composition/Information on Ingredients =====

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

===== Hazards I

dentification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT): 28710 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: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 ABDOMINA

L 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.

Effects of Overexposure:NHALATION OF VAPORS IRRITATE THE RESPIRATORY

TRACT. OVEREXPOSURE MAY CAUSE LIGHTHEADEDNESS, NAUSEA, HEADACHE AND BLURRED VISION. GREATER EXPOSURE MAY CAUSE MUSCLE WEAKNESS, NUMBNESS OF EXTREMETIES, UN CONSCIOUSNESS & DEATH. INGESTION MAY PRODUCE ABDOMINAL PAIN, NAUSEA. ASPIRATION INTO THE LUNGS CAN PRODUCE SEVERE LUNG DAMAGE & IS A MEDICAL EMERGENCY. OTHER SYMPTOMS EXPCTED TO PARALLEL INHALATION. S KIN CONTACT MAY CAUSE REDNESS, IRRITATION WITH DRYNESS, CRACKING,. MAY BE ABSORBED THROUGH SKIN WITH POSSIBLE SYSTE

MIC 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 Measures =====

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.

===== Fire Fighting

Measures =====

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 S PRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINER COOL. VAPOR 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 TET RAOXIDE. SENSITIVE TO STATIC DISCHARGE.VAPOR MAY CAUSE FLASH FIRE. DANGEROUS FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

===== Accidental Release Measures =====

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 T OOLS & EQUIPMENT. COLLECT IN APPROPRIATE CONTAINER OR ABSORB WITH INERT MATERIAL AND PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT FLUSH T

O SEWER. IF NOT IGNITED, USE WATER SPRAY TO DISPERSE VAPORS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

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 BE HAZARDOUS WHEN EMPTIED SINCE THEY CONTAIN PRODUCT RESIDUES. OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT. DO NOT ATTEMPT TO CLEAN E MPTY CONTAINERS. DO NOT PRESSURIZE, CUT, BRAZE, SOLDER, DRILL, GRIND OR EXPOSURE TO SOURCES OF IGNIT ION.

=====
===== Exposure Controls/Personal Protection =====

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 IMPE

RVIOUS 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 (800-424-88 02).

=====
===== Physical/Chemical Properties =====

HCC:F2

Boiling Pt:>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.

=====
===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS.

Stability Condition to Avoid:HEAT, FLAMES, IGNITION SOURCES AND

IMCOMPATIBLES. STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

HEAT WILL CONTRIBUTE TO INSTABILITY.

Hazardous Decomposition Products:MAY PRODUCE ACRID SMOKE AND IR

RITATING

FUMES WHEN HEATED TO DECOMPOSITION.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

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.

===== Ecological Information =====

Ecological:WHEN RELEASED TO THE SOIL, THIS MATERIA
L 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 MATE RIAL 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 W ATER, THIS MATERIAL IS EXPECTED TO HAVE A HALF-LIFE
BETWEEN 1 & 10 DAYS. THE MATERIALHAS AN ESTIMATED BIOCONCEN
TRATION
FACTOR OF LESS THAN 100.

===== Disposal Considerations =====

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 CO NTAMINATION OF THE PRODUCT MAY
CHANGE THE WASTE MANAGEMENT OPTIONS. STATE & LOCAL REGULATIONS MAY
DI FFER FROM FEDERAL REGULATIONS.

=====
=== MSDS Transport Information =====

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

===== Regulatory Information =====

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

===== O

ther Information =====

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 this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of th
is information to their
particular situation.