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## PHIBRO ENERGY USA INC -- TOLUENE -- 6810-00-281-2002

Product ID:TOLUENE MSDS Date:12/19/1995

FSC:6810

NIIN:00-281-2002

MSDS Number: BTRTZ === Responsible Party ===

Company Name: PHIBRO ENERGY USA INC Address: 500 DALLAS AVE SUITE 3200

City:HOUSTON

State:TX ZIP:77002 Country:US

Info Phone Num:713-923-6641

Emergency Phone Num:713-797-0395

Preparer's Name: RON LOUVIER

Chemtrec Ind/Phone:(800)424-9300

CAGE:0V310

=== Contractor Identification ===

Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX ZIP:77305 Country:US

Phone: 409-756-1065

CAGE:4N760

Company Name: PHIBRO ENERGY USA INC Address: 500 DALLAS AVE SUITE 3200

Box:City:HOUSTON

State:TX ZIP:77002 Country:US

Phone:713-923-6641, CHEMTREC800-424-9300

Contract Num:SP0450-99-M-NE18

CAGE:0V310

Company Name: STARTEX CHEMICAL INC

Address: 5 HACKBERRY LANE

Box:

3087

City:CONROE

State:TX ZIP:77305 Country:US

Phone: 409-539-6244

CAGE:0YFV5

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

Ingred Name: TOLUENE (SARA 313) (CERCLA)

CAS:108-88-3

RTECS #:XS5250000 Fraction by Wt: >99%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:200 PPM; Z-2 ACGIH TLV:S, 50 PPM; 9596

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

=========== Hazards Identification ==========================

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 636MG/KG

Routes of Entry: In

halation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:EYES: MAY CAUSE SEVERE EYE IRRITATION, AND CONJUNCTIVITIS. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE MODERATE IRRITATION DEFATTING, INFLAMMATION, DERMATITIS, AND POSSIBLE SECONDARY INFECTION. HIGH PRESSURE SKIN INJECTIONS ARE SERIOUS MEDICAL EMERGENCIES. INJURY MAY NOT APPEAR SERIOUS AT FIRST. WITHIN A FEW HOURS, TISSUES WILL BECOME SWOLLEN, DISCOLOR ED.

AND EXTREMELY PAINFUL. INHALATION: NASAL AND RESPIRATORY TRACT IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS, ANEMIA AND IRREGULAR HEART RHYTHM. INGESTION: MAY BE HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE NAUSEA, VOMITING, DIARRHEA, RESTLESSNES S, CENTRAL NERVOUS SYSTEM EFFECTS.

Effects of Overexposure:EYES: SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION, AND CONJUNCTIVITIS. SKIN: IRRITATION, DEFATTING, REDNESS, ITCHING, INFLAMMATION, DERMATITIS, AND POSSIBLE SE

## **CONDARY**

INFECTION. INHALATION: NA SAL AND RESPIRATORY TRACT IRRITATION, CNS EFFECTS INCLUDING EXCITATION, EUPHORIA, CONTRACTED EYE PUPLES, DIZZINESS, DROWSINESS, BLURRED VISION, FATIGUE, NAUSEA, HEADACHE, LOSS OF REFLEXES, TREMORS, CO NVULSIONS, SEIZURES, LOSS OF CONSCIOUSNESS, COMA, RESPIRATORY ARREST, SUDDEN DEATH, ANEMIA, IRREGULAR HEART RHYTHM, BEHAVIORAL CHANGES. INGESTION: NAUSEA, VOMITING, DIARRHEA, AND RESTLESSNESS.

Medical Cond Aggravated by Exposure:PRE-EXIS

TING EYE, SKIN, HEART,

CENTRAL NERVOUS SYSTEM AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. H0LD EYELIDS AWAY FROM EYEBALLS. GET MEDICAL ATTENTION IF PAIN OR REDNESS CONTINUES. SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED SKIN AREA WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. GET IMM

EDIATE MEDICAL ATTENTION FOR HIGH

PRESSURE SKIN INJECTION. INHALATION: MOVE TO FRESH AIR. IF BREATHING DIFFICULT, GIVE OXYG EN. IF NOT BREATHING, GIVE CPR. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCEVOMITING. GIVE VEGETABLE OIL OR CHARCOAL SLURRY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET IMMEDIATE MED ICAL ATTENTION.

============ Fire Fighting Measures =========================

Flash Point:=4.4C, 40.F

Autoignition Temp:=480.C, 896.F

**Lower Limits** 

:1.2

**Upper Limits:7.1** 

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, FOAM.

Fire Fighting Procedures: USE A SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE MASK AND FULL PROTECTIVE EQUIPMENT. COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.

Unusual Fire/Explosion Hazard: DANGEROUS WHEN EXPOSED TO HEAT OR FLAME. VAPORS ARE HEAVIER THAN AIR, CAN TRAVEL DISTANCES ALONG THE GROUND AND FLASHBACK AT THE SOURCE.

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

Spill R

elease Procedures: ELIMINATE IGNITION SOURCES. USE PROTECTIVE
EQUIPMENT. VENTILATE AREA. CONTAIN SPILL. RECOVER BY VACUUMING. USE
WATER SPRAY TO DISPERSE VAPORS. SOAK UP WITH INERT ABSORBANT. PLACE
IN CONTAINER FOR DISPO SAL. PREVENT FROM ENTERING SEWERS,
STORMDRAINS, DRAINAGE SYSTEMS, NATURAL WATERWAYS, NAVIGABLE
WATERS, SHORELINES. CONTACT FIRE AUTHORITIES, FEDERAL, STATE, LOCAL
AGENCIES, NATIONAL RESPONSE CENTER.

Neutralizing Agent: NONE APPLICABLE.

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

Handling and Storage Precautions: USE ONLY IN WELL VENTILATED AREA. KEEP AWAY FROM HEAT, SPARKS, AND FLAMES. DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRILL ON OR NEAR CONTAINER. "EMPTY" CONTAINER CONTAINS RESIDUE(LIQUID, VAPOR) AND MAY EXPLODE IN HEAT OF A FIRE. STORE INA COOL, DRY, WELL-VENTILATED PLACE. FOR IDUSTRIAL USE ONLY.

Other Precautions:DO NOT WEAR CONTACT LENSES. GROUND CONTAINERS WHEN TRANSFERRING LIQUID; FLOWING

HYDROCARBONS CAN BECOME

ELECTROSTATICALLY CHARGED. EMPTY CONTAINERS MAY BE DANGEROUS; DISPOSE OF PROPERLY. KEEP OUT OF R EACH OF CHILDREN. NEVER SIPHON BY MOUTH.

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

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE NIOSH EQUIPMENT. PROPER RESPIRATOR SELECTION SHOULD BE DETERMINED BY ADEQUATELY TRAINED PERSONNEL, BASED ON THE CONTAMINANTS, THE DE GREE OF POTENTIAL EX

POSURE AND

PUBLISHEDRESPIRATORY PROTECTION FACTORS. THIS EQUIPMENT SHOULD BE AVAILABLE FOR NONROUTINE AND EMERGENCY USE.

Ventilation: IN CONFINED SPACE, MECHANICAL VENTILATION MAY BE NECESSARY TO REDUCE VAPOR CONCENTRATIONS TO LEVELS BELOW THE ALLOWABLE EXPOSURE LIMITS.

Protective Gloves: NEOPRENE, NITRILE-BUTADIENE RUBBER.

Eye Protection: SAFETY GLASSES OR CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:PROTECTIVE CLOTHING, AS NEEDED. PROVIDE A LOCAL EYE WASH STATION AND SA

FETY SHOWER IN THE WORK AREA.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NONE

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

HCC:F2

Boiling Pt:=110.C, 230.F Vapor Pres:54.3 @100F Vapor Density:3.1(AIR=1) Spec Gravity:0.87 @60F

Solubility in Water:NEGLIGIBLE (