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PHOENIX INDUSTRIES INC -- BUTOXYETHANOL, TECHNICAL -- 6810-00-281-2001

Product ID:BUTOXYETHANOL, TECHNICAL

MSDS Date:04/06/1999

FSC:6810

NIIN:00-281-2001

Status Code:A

MSDS Number: CJHXY === 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

Emerge

ncy Phone Num:(800)424-9300 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-C962

CAGE:0YED2

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-NF14

CAGE:0YED2

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

Ingred Name:2-BUTOXYETHANOL CAS:111-76-2 RTECS #:KJ8575000 Minumum % Wt:99. Maxumum % Wt:100.

OSHA PEL:240 MG/M3;50 PPM ACGIH TLV:121 MG/M3;25 PPM

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

LD50 LC50 Mixture:LD50 (ORAL, RAT): 470 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:TARGET ORGANS: LIVER, KIDNEYS,

LYMPHOID SYSTEM, BLOOD AND BLOOD-FORMING ORGANS. ACUTE: INHALATION CAUSES IRRITATION TO THE RESPIRATORY TRACT. INGESTION CAUSES IRRITATION TO THE GASTROINTESTINAL TRACT. SKIN CONTACT MAY CAUSE IRRITATION WITHREDNESS & PAIN. MAY BE ABSORBED THROUGH SKIN WITH POSSIBLE SYSTEMIC EFFECTS. EYE CONTACT WITH VAPORS ARE IRRITATING. SPLASHES CAN CAUSE SEVERE PAIN, STINGING, S WELLING. CHRONIC: PROLONGED OR REPEATED EXPOSURES CAN CAUSE DAMAGE TO THE LIVER, KIDNEYS, LYMPHOI

D SYSTEM, BLOOD AND BLOOD-FORMING ORGANS.

Explanation of Carcinogenicity: NONE STATED BY MANUFACTURER.

Effects of Overexposure:INHÁLED-SORE THROAT, COUGHING, HEADACHE, NAUSEA, SHORTNESS OF BREATH, NARCOTIC EFFECT (HIGH CONCENTRATION). INGESTED-GI TRACT IRRITATION, NAUSEA, VOMITING, DIARRHEA. SKIN-REDNESS, PAIN. EYES-PAIN, RED NESS, TERAING, STINGING, SWELLING.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS, IMPAIRED LIVER, KIDNEYS,

LYMPHOID SYSTEM,

BLOOD, OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

First Aid:INHALED-REMOVE TO FRESH AIR. IF BREATHING DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CALL A PHYSICIAN. INGESTED-IF CONSCIOUS, INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MED ICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. CALL PHYSICIAN IMMEDIATELY.

SKIN-REMOVE ANY

CONTAMINATED CLOTHES. FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IMMEDIATELY. EYES-WASH EYES WITH LOTS OF WATER FOR 15 MINUTES, LIFT LIDS. CALL A PHYSICIAN IMMEDIATELY

Flash Point:=62.2C, 144.F

Autoignition Temp:=237.8C, 460.F

Lower Limits:1.1 Upper Limits:12.7

Extinguishing Media:DRY CHEMICAL, ALCOHOL FOAM OR CARBON DIOXIDE. DO NOT USE A SOLID STREAM OF WATER, SINCE THE STREA

M WILL SCATTER AND SPREAD THE FIRE.

Fire Fighting Procedures:IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPEATED IN THE PRESSURE DEMAND OR OTHER POSITIVE MODE.

Unusual Fire/Explosion Hazard:WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL, DILUTE SPILLS TO NONFLAMMABE MIXTURES. PROTECT PERSONNEL ATTEMPTING TO STOP LEAK AND DISPERSE VAPORS. ABOVE FLASH POINT, VAPOR-AIR-MIXTU

RE S ARE EXPLOSIVE WITHIN

FLAMMABLE LIMITSNOTED ABOVE.

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

Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL.REMOVE SOURCES OF IGNITION. WEAR APPROPRIATE PERSONAL PROTECTIVE GEAR. ISOLATE HAZARD AREA. KEEP UNECESSAY PEOPLE FROM ENTERING.CONTAIN & RECOVER IF POSSIBLE. USE NON-S PARKING TOOLS & EQUIPMENT. COLLECT LIQUID IN AN APPROPRIATE CONTAINER OR ABSORB WITH AN INERT MATERIAL & PLACE IN A CHEMICAL

WASTE CONTAINER. DO NOT FLUSH TO SEWER. USE WATER SPRAY TO DISPERSE VAPORS
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL DRY, WELL-VENTILATED AREA, AWAY FROM SOURCES OF IGNITION & OXIDIZING MATERIALS. OUTSIDE OR DETACHED STORAGE IS PREFERRED. STORAGE & USE AREA SHOULD BE "NO SMOKING" AREAS. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODU

CT RESIDUES. OBSERVE ALL WARNINGS & PRECAUTIONS.

Other Precautions:PROTECT AGAINAST PHYSICAL DAMAGE. CONTAINERS SHOULD BE BONDED & GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS.

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

Respiratory Protection:IF THE EXPOSURE LIMIT IS EXCEEDED, A FULL FACEPIECE RESPIRATOR WITH ORGANIC VAPOR CARTIDGE MAY BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE R EGULATORY AG

ENCY OR RESPIRATOR

SUPPLIER, WHICHEVER IS LOWEST.

Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIREBORNE EXPOSURE LIMITS.

Protective Gloves: IMPERVIOUS

Eye Protection:USE CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD.

Other Protective Equipment:MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. WEAR IMPERVIOUS CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT

SKIN CONTACT.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

VAPORS CAN FLOW ALONG SURFACES TO DISTANT IGNITION SOURCE AND FLASH BACK. CONTACT WITH STRONG OCIDIZERS MAY CAUSE FIRE.SENSITIVE TO STATIC DISCHARGE. FOR EMERGENCIES OR INSTANCES WHERE THE EXPOSRE LEV ELS ARE NOT KNOWN, USE A FULL-FACE POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR.

=======================================	Physical/Chemical	Properties	=======================================
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HCC:T4

Boiling Pt:=171.1C, 34

0.F

Melt/Freeze Pt:=-70.C, -94.F

Vapor Pres: 0.8 @ 20 C

Spec Gravity:0.90 @ 20 C/4C Solubility in Water:SOLUBLE

Appearance and Odor:CLEAR, COLORLESS LIQUID, MILD ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, STRONG BASES. MAY ATTACK METALLIC ALUMINUM AT HIGH TEMPERATURES.

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

Hazardous Decomposition Products: CARBON DIOXIDE A

ND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION. Conditions to Avoid Polymerization:WILL NOT OCCUR.
========== Toxicological Information ============
Toxicological Information:ORAL RAT LD50: 470 MG/KG. INHALATION RAT LC50: 450 PPM/4HR. SKIN RABBIT LD50: 220 MG/KG; INVESTIGATED AS A TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR. REPRODUCTIVE TOXICITY: HAS SHOWN TERATOGENIC EFFEC TS IN LABORATORY ANIMALS.
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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 MAY LEACH INTO GROUNDWATER. WHEN RELEASED TO THE SOIL, THIS MATERIAL IS NOT EXPECTED TO EVAPORATE. WHEN RELEASEDTO WATER, THIS MATERIAL IS EXPECTED TO QUICKLY EVAPORATE. WHEN RELEASED TO WATER, THIS MATERIAL MAY BIODEGRADE TO A MODERATE EXTENT. THE MATERIALHAS AN ESTIMATED BIOCONCENTRATION FACTOR OF LESS THA N 100.
======== Disposal Considerations =============
Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE MANGAED IN AN APPROPRIATE & APPROVED WASTE DISPSOAL FACILITY. PROCESSING, USE OR CONTAMINATION MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STA TE & LOCAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE OF CONTAINER IAW FEDERAL, STATE & LOCAL REQUIREMENTS.
========== MSDS Transport Informatio n ====================================
Transport Information:DOMESTIC, LAND, DOT: TOXIC LIQUID, ORGANIC, N.O.S. (ETHYLENE GLYCOL MONOBUTYL ETHER) HAZARD CLASS 6.1, UN2810, PG III. AIR, ICAO: TOXIC LIQUID, ORGANIC, N.O.S. (ETHYLENE GLYCOL MONOBUTYL ETHER). HAZAR D CLASS: 6.1. UN2810. PACKING GROUPIII.
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SARA Title III Information:SARA 302: RQ-NO; TPQ-NO. SARA 313: LIST-NO; CHEMICAL CATAGORY-NO. Federal Regulatory Information:RC

RA/CERCLA: NO. TSCA: 261.33-NO; 8(D)-YES. State Regulatory Information:NONE SPECIFIED BY MANUFACTURER.

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