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PHOENIX INDUSTRIES INC -- ETHYLENE GLYCOL, TECHNICAL -- 6810-00-006-4205

Product ID: ETHYLENE GLYCOL, TECHNICAL MSDS Date:05/03/1999 FSC:6810 NIIN:00-006-4205 Status Code:A MSDS Number: CKKRC === Responsible Party === Company Name: PHOENIX INDUSTRIES INC Address:11028 S LEADBETTER RD UNIT 10 City:ASHLAND State:VA ZIP:23005 Country:US Info Phone Num:804-264-5183 Е mergency Phone Num:800-424-8802 NAT RESP CTR 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:SP0450-00-M-SB23 CAGE:0YED2

Ingred Name:ETHYLENE GLYCOL CAS:107-21-1 RTECS #:KW2975000 Minumum % Wt:99. Maxumum % Wt:100. ACGIH STEL:C127 MG/M 3;C50 PPM EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

LD50 LC50 Mixture:ORAL RAT LD50: 4700 MG/KG

Reports of Carcinogenicity:NTP:NO IARC:NO Health Hazards Acute and Chronic:INHALATION: VAPOR INHALATION NOT A PROBLEM UNLESS HEATED OR MISTED. EXPOSURE TO VAPORS OVER AN EXTENDED TIME HAS CAUSED THROAT IRRITATION & HEADACHE. MAY CAUSE PULMONARY EDEMA & CENTRAL NERVOUS SYSTEM DEPRESSION. HAS PRODUCED RAPID, INVOLUNTARY E

YE MOVEMENT& COMA. INGESTION: INITIAL SYMPTOMS IN MASSIVE DOSAGE PARALLEL INTOXICATION, PROGRESSING TO CNS DEPRESSION. DEATH FROM RESPIRATORY ARREST OR CA RDIOVASCULAR COLLAPSE MAY FOLLOW. SKIN CONTACT: MINOR SKIN IRRITATION & PENETRATION MAY OCCUR. EYE CONTACT: IRRITATION, PAIN, EYE DAMAGE. CHRONIC: SEVERE KIDNEY PROBLEMS, BRAIN DAMAGE, SKIN ALLERGY CA N DEVELOP. MAY DAMAGE DEVELOPING FETUS.

Explanation of Carcinogenicity:INGREDIENT: ETHYLENE GLYCOL, CAS # 107-21-1:

NTP CARCINOGE: NO; IARC CATEGORY: NONE.

Effects of Overexposure:INHALATION: NAUSEA, VOMITING, DIZZINESS & DROWSINESS, RAPID, INVOLUNTARY EYE MOVEMENT & COMA. INGESTION: , VOMITING, HEADACHE, RAPID RESPIRATORY AND HEART RATE, LOWERED BLOOD PRESSURE, STUPOR, COLLAPS E, AND UNCONSCIOUSNESS WITH CONVULSIONS. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS, OR IMPAIRED LIVER, KIDNEY, OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE

EFFECTS OF THIS SUBSTANCE.

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. INGESTION: INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION. SKIN: REMOVE ANY CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTE NTION IF IRRITATION DEVELOPS OR PERSISTS. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LOWER AND UPPER LIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

Flash Point Method:CC Flash Point:=111.C, 231.8F Autoignition Temp:=398.C, 748.4F Lower Limits:3.2 Upper Limits:15.3 Extinguishing Media: DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER OR FOAM MAY CAUSE FROTHING. WATER SPRAY MAY BE USED TO EXTINGUISH SURROUNDING FIRE AND COOL EXPOSED CONTAINERS. WATER SPRAY WILL ALSO REDU Fire Fighting Procedures: IN THE EVENT OF 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. TOXIC GAS ES AND VAPORS MAY BE RELEASED IF INVOLVED IN A FIRE. Unusual Fire/Explosion Hazard: ABOVE FLASH POINT, VAPOR-AIR MIX **TURES ARE**

EXPLOSIVE WITHING FLAMMABLE LIMITS NOTED ABOVE. CONTAINERS MAY EXPLODE WHEN INVOLVED IN FIRE.

Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL. REMOVE ALL SOURCES OF IGNITION. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. KEEP UNNECESSARY & UNPROTECTED PERSONNEL FROM ENTERING. CONTAIN AN D RECOVER LIQUID WHEN POSSIBLE FROM ENTERING. CONTAIN AND RECOVER LIQUID WHE N POSSIBLE. USE

NON-SPARKING TOOLS & EQUIPMENT. COLLECT LIQUID IN AN APPROPRIATE CONTAINER OR ABSORB WITH AN INERT MATERIAL. Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Handling and Storage Precautions: KEEP IN A TIGHTLY CLOSED CONTAINER, STORED IN A COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMAGE. SEPARATE FROM ACIDS AND OXIDIZING MATERIALS. CONTAINERS OF THIS MATERIAL MAY BE HAZAR DOUS W HEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUE (VAPORS, LIQUID); OBSERVE ALL WARNINGS AND PRECAUTIONS L

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

Respiratory Protection: IF THE EXPOSURE LIMIT IS EXCEEDED, A HALF-FACE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE AND DUST/MIST FILTER MAY BE WORN FOR UP TO TEN TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECI FIED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVE R IS LOWEST.

Ventilation: A SYSTEM OF LOCAL OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS PREFERED.

Protective Gloves:WEAR PROTECTIVE GLOVES.

Eye Protection: USE CHEMICAL SAFETY GOGGLES.

Other Protective Equipment: WEAR CLEAN BODY-COVERING CLOTHING. MAINTAIN EYE WASH FOUNTAIN AND QUICK DRENCH FACILITIES IN WORK AREA.

Work Hygienic Practices:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Supplemental Safety and Healt

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NO DATA PROVIDED BY RESPONSIBLE PARTY.

HCC:V5 Boiling Pt:=197.6C, 387.7F Melt/Freeze Pt:=-13.C, 8.6F Vapor Pres:0.06@20C Vapor Density:2.14 Spec Gravity:1.1 (20C) Solubility in Water:MISCIBLE Appearance and Odor:CLEAR OILY LIQUID; ODORLESS

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS.REACTS VIOLENTLY WITH CHLOROSULFONIC ACID, OLE UM, SULFURIC ACID, PERCHLORIC ACID.CAUSES IGNITION WITH CHLORIUM TRIOXIDE, POTASSIUM PERMANGANATE, SODIUM PEROXIDE, AMMONIUM DICHROMATE, SILVER CHLORATE, SO

Stability Condition to Avoid:HEAT, FLAMES, IGNITION SOURCES, WATER (ABSORBS READILY) AND INCOMPATIBLES.

Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION. MAY PRODUCE ACRID AND IRRITATING FUMES WHEN HEATED TO DECOMPOSITION.

================== Toxicological Informatio

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Toxicological Information:OARAL RAT LD50: 4700 MG/KG; SKIN RABBIT LD50: 9530 MG/KG; IRRITATION-SKIN RABBIT: 555 MG(OPEN), MILD; EYE RABBIT: 500 MG/24H, MILD. INVESTIGATED AS TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR. REPRODUCT IVE TOXICITY: HAS SHOWN TERATOGENIC EFFECTS IN LABAORATORY ANIMALS. CANCER LISTS: INGREDIENT: ETHYLENE GLYCOL, CAS # 107-21-1: NTP CARCINOGE: NO; IARC CATEGORY: NONE.

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Ecological:MATERIAL IS EXPECTED TO BIODEGRADE READILY WHEN RELEASED TO SOIL; PRODUCT IS EXPECTED TO LEACH INTO GROUNDWATER; MATERIAL IS NOT EXPECTED TO EVAPORATE SIGNIFIGANTLY. WHEN RELEASED TO WATER: MATERIAL I S EXPECTED TO HAVE A HALF-LIFE BETWEEN 1-10 DAYS; IS NOT EXPECTED TO BIOACCUMULATE SIGNIFIGANTLY; HAS LOG OCTANOL-WATER COEFFICIENT OF LESS THAN 3.0; IS NOT EXPECTED TO EVAPORATE SIGNIFIGANTLY. WHEN R ELEASED TO AIR: PRODUCT IS EXPECTED TO BE RAPIDLY D

EGRADED BY REACTION WITH PHOTOCHEMICALLY PRODUCED HYDROXYL RADICALS; EXPECTED TO HAVE A HALF-LIFE OF BETWEEN 1-10 DAYS. ENVIRONMENTAL TOXICITY: LC50/ 96 HR FISH: >100 MG/L.

Waste Disposal Methods:PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE OF CONTAINER AND UN USED CONTENTS

IN ACCORDANCE WITH FEDERAL, S	STATE
AND LOCAL REQUIREMENTS.	

RQ-NO, TPQ-NO; SARA 313 LISTED-YES, CHEMICAL CATG-NO. Federal Regulatory Information:ETHYLENE GLYCOL, CAS # 107-21-1: RCRA/CERCLA RQ-5000 LBS. TSCA 261.33-NO, 8(D)-NO. State Regulat

ory Information: NO DATA PROVIDED BY RESPONSIBLE PARTY.

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