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PHOENIX INDUSTRIES INC -- DIETHYLENETRIAMINE, TECHNICAL -- 6810-00-995-4804

Product ID:DIETHYLENETRIAMINE, TECHNICAL

MSDS Date:04/24/2000

FSC:6810

NIIN:00-995-4804

MSDS Number: CKBVP === 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

Emergency

Phone Num:804-264-5183

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-D268

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:SP0450-00-M-SH20

CAGE:0YED2

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

Ingred Name: DIETHYLENETRIAMINE

CAS:111-40-0

RTECS #:IE1225000

= Wt:100.

ACGIH TLV:4.2 MG/M3;1 PPM

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

LD50 LC50 Mixture:ORAL RAT = 1080 MG/KG

Routes of Entry: Inhalation: NO Skin: YES Ingestion: YES

Health Hazards Acute and Chronic:EYE: CAUSES EYE BURNS. MAY RESULT IN CORNEAL INJURY OR IRREVERSIBLE EYE INJURY. SKIN: CAUSES SKIN BURNS.

MAY CAUSE SKIN SENSITIZATION. IN GESTION: CAUSES GASTROINTESTINAL

TRACT BURNS. MAY CAUSE CORRO SION & PERMANENT TISSUE DESTRUCTION OF THE ESOPHAGUS & DIGESTIVE TRACT. INHALATION: MAY CAUSE ASTHMATIC ATTACKS DUE TO ALLERGIC SENSITIZATION OF THE RESPIRATORY TRACT. CAUSES RESPIRATORY TRACT IRRITATION WITH POSSIBLE BURNS. CHRONIC: PRONLONGED OR REPEATED SKIN CONTACT MAY CAUSE SENSITIZATION DERMATITIS & POSSIBLE DESTRUCTION AND/OR ULCERATION. REPEATED EXPOSURE MAY CAUSE ALLERGIC RESPIRATORY R EACTION (ASTHMA).

Explanation of Carcinogenicity: NOT LISTED AS CARCINOGENCITY BY ACGIH, IARC, NIOSH, NTP, OR OSHA.

Effects of Overexposure:EYES: EYE BURNS, CORNEAL INJURY, IRREVERSIBLE EYE INJURY. SKIN: BURNS, SENSITIZATION. INGESTION: GASTROINTESTINAL TRACT BURNS, CORROSION AND TISSUE DESTRUCTION OF THE ESOPHAGUS AND DIGESTIVE TRACT. INHALATION: ASTHMATIC ATTACKS.

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR 15 MIN, LIFTING THE

UPPER & LOWER LIDS. GET MEDICAL AID IMMEDIATELY. SKIN: GET MEDICAL AID IMMEDIATELY. FLUSH SKIN WITH PLENTY OF SOAP & WATER FOR 15 MIN WHILE RE MOVING CONTAMINATED CLOTHING & SHOES. INGESTION: DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS, GIVE 2-4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATI

ON. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL AID. DO NOT USE MOUTH-TO-MOUTH RES PIRATION.
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Flash Point:=102.C, 215.6F Autoignition Temp:=395.C, 743.F Lower Limits:2 Upper Limits:11.6
Extinguishing Media:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. SMALL FIRE: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY. LARGE FIRE:DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL-RESISTANT FOAM, WATER SPRAY. Fire Fighti
ng Procedures:AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. Unusual Fire/Explosion Hazard:DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL CONTAINERS MAY EXPLODE IN THE HEAT OF A FIRE. VAPORS MAY BE HEAVIER THAN AIR. THEY CAN SPREAD ALONG THE GROUND AND COLLECT IN
LOW OR CONFINED AREAS.
========= Accidental Release Measures ============
Spill Release Procedures: ABORB SPILL WITH INERT MATERIAL, (E.G., DRY SAND OR EARTH), THEN PLACE INTO A CHEMICAL WASTE CONTAINER. USE WATER SPRAY TO DISDEBSE THE CASSAADOR DEMOVE ALL SOURCE OF ICRITION

SPRAY TO DISPERSE THE GA S/VAPOR. REMOVE ALL SOURCE OF IGNITION. PROVIDE VENTILATION. DO NOT GET WATER INSIDE CONTAINERS.

Handling and Storage Precautions: WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT INGEST OR INHALE. KEEP AWAY FROM HEAT & FLAME. STORE IN A COOL, DRY, WELL VENTILA TED AREA IN A TIGHTLY CLOSED CONTAINER. KEEP FROM CONTACT WITH OXIDIZING MATERIALS.

Other Precautions: REMOVE CONTAMINATED CLOTHING & WASH BEFORE REUSE. KEEP MATERIAL AWAY FROM INCOMPATIBLE SUBSTANCES. CORROSIVES AREA. KEEP AWAY FROM A

CIDS. NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29CFR 1910.134. ALWAYS USE NIOSH APPROVED RESPIRATOR WHEN NECESSARY.
Ventilation:USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRACTIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS. Protective Gloves:WEAR APPROPRIATE GLOVES TO PREVENT SKIN EXPOSUR E.
Eye Protection:PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE. FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYE WASH FACILITY AND A SAFETY SHOWER.
Work Hygienic Practices:WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES.
Supplemental Safety and Health WEAR APPROPIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES AS DESCRIBED BY OSHA'S EYE AND FAC E PROTECTION REGULATIONS IN 29 CFR 19101.133.
========= Physical/Chemical Properties ==========
HCC:B2 Boiling Pt:=207.C, 404.6F Melt/Freeze Pt:=-35.C, -31.F Vapor Pres:0.37 MMHG @ 20C Vapor Density:3.5 Spec Gravity:0.959 pH:STRONG ALKALINE Viscosity:0.0714 CPS - 20C Solubility in Water:SOLUBLE Appearance and Odor:COLORLESS TO YELLOW LIQUID WITH AMINE-LIKE ODOR

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

Stability Indicator/Materials to Avoid:YE

CORROSIVE TO COPPER & ITS ALLOYS. IGNITES ON CONTACT WITH CELLULOSE NITRATE OF HIGH SURFACE AREA, FORMS A SHOCK-SENSITIVE EXPLOSIVE WITH NITROMETHANE. AVOID ACIDS, CHLORINE, HALOGENATED COMPOUNDS, OXIDIZING AGENTS & REACTI

Stability Condition to Avoid:INCOMPATIBLE MATERIALS, IGNITION SOURCES. Hazardous Decomposition Products:NITROGEN OXIDES, CARBON MONOXIDE, IRRITATING AND TOXIC FUMES AND GASES, CARBON DIOXIDE, AMINES. Conditions to Avoid Polymerization:HAS NOT BEEN REPORTED.

Ecological:TERRESTRIAL: LEACHES INTO GROUND WATER. AQUATIC: UNKNOWN.
ATMOSPHERIC DEGRADED BY PHOTOCHEMICALLY PRODUCED HYDROXYL RADICALS.
LOW POTENTIAL FOR BIOCONCENTRATION AND BIODEGRADATION.

===== Disposal Considerations ====

Waste Disposal Methods:DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL, STATE, AND LOCAL REGULATIONS. NOT LISTED AS A MATERIAL BANNED FROM LAND DISPOSAL ACCORDING TO RCRA.

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

Transport Information:US DOT; PROPER SHIPPING NAME: DIETHYLENETRIAMINE. HAZARD CLASS: 8. UN NUMBER: UN2079. PACKING GROUP: II. ICAO; PROPER SHIPPING NAME: DIETHYLENETRIAMINE. HAZARD CLASS: 8. UN NUMBER: UN2079. PACKING G

RO UP: II.

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

SARA Title III Information:SECTION 302 (RQ): NONE OF THE CHEMICALS IN THIS MATERIAL HAVE AN RQ. SECTION 302 (TPQ): NONE OF THE CHEMICALS IN THIS PRODUCT HAVE A TPQ. SARA CODES: CAS#111-40-0: ACUTE, CHRONIC. SECTION 313: NO CHEM ICALS ARE REPORTABLE UNDER SECTION 313.

Federal Regulatory Information:TSCA: CAS#111-40-0 IS LISTED ON THE TSCA INVENTORY. OSHA: NONE OF THE CHEMICALS IN THIS PRODUCT ARE

CONSIDERED HIGHLY HAZARDOUS BY OSHA.

State Regulatory Information:DIETHYLENETRIAMINE CAN BE FOUND ON THE FOLLOWING STATE RIGHT TO KNOW LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOTA, MASSACHUSETTS. CLAIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE C HEMICALS IN THIS PRODUCT ARE LISTED.

============ Other Information ==============================

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