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PHOENIX INDUSTRIES INC -- ISOPROPYL ALCOHOL TECHNICAL -- 6810-01-454-9527

Product ID:ISOPROPYL ALCOHOL TECHNICAL

MSDS Date:12/08/1999

FSC:6810

NIIN:01-454-9527 Status Code:A

MSDS Number: CJYGT === 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)424-9300 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-C690

CAGE:0YED2

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

Ingred Name: ISOPROPYL ALCOHOL

CAS:67-63-0

RTECS #:NT8050000 Minumum % Wt:90. Maxumum % Wt:100.

OSHA PEL:980 MG/M3;400 PPM

ACG

IH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:0. Maxumum % Wt:10.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:INHALATION: INHALATION OF VAPORS
IRRITATES THE RESPIRATORY TRACT. EXPOSURE TO HIGH CONCENTRA-TIONS
HAS A NARCOTIC EFFECT. INGESTION: CAN CAUSE DEATH. THE SINGLE
LETHAL DOSE FOR A HUMANS AD

ULT=ABOUT 25 0 MLS(8OZ). SKIN: MAY CAUSE IRRITATION. MAY BE ABSORBED THROUGH THE SKIN WITH POSSIBLE SYSTEMIC EFFECTS. EYE: VAPORS CAUSE EYE IRRITATION. SPLASHES CAUSE SEVERE IRRITATION. CHRONIC EXPOSURE: CHRONIC E XPOSURE MAY CAUSE SKIN EFFECTS.

Effects of Overexposure:INHALATION:EXPOSURE TO HIGH CONCEN-TRATIONS HAS A NARCOTIC EFFECT, PRODUCING SYMPTOMS OF DIZZINESS, DROWSINESS, HEADACHE, STAGGERING, UNCONSCIOUSNESS & POSSIBLY DEATH. INGESTION: CAN CAUSE DROWSINESS,

UNCON-SCIOUSNESS, & DEATH.GASTROINTESTINAL
PAIN, CRAMPS NAUSEA, VOMITING & DIARRHEA MAY ALSO RESULT. SKIN :MAY
CAUSE REDNESS & PAIN. EYE: SPLASHES CAUSE SEVERE IRRITATION,
POSSIBLE CORNEAL BURNS AND EYE DAMAGE.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR IMPAIRED LIVER, KIDNEY, OR PULMONARY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS AGENT.

First Aid: INHALATI

ON: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE
ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
CALL A PHYSCIAN. INGESTION: GIVE LARGE AMOUNTS OF WATER TO DRINK.
NEVER GIVE ANYGHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL
ATTENTION.SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER
FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IF IRRITATION DEVELOPS.
EYE CONTA CT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT
LEAST 15 MINUTES, LIFTIN

G EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point Method:TCC Flash Point:=12.C, 53.6F

Autoignition Temp:=399.C, 750.2F

Lower Limits:2.0 Upper Limits:12.7

Extinguishing Media:WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM, OR CARBON DIOXIDE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL, DILUTE SPILLS TO NONFLAMMABLE MIXTURES.

Fire Fighting Procedures: IN THE EVENT OF A FIRE, WEAR FULL P ROTECTOVE

CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS NOTED ABOVE. CONTACT WITH STRON OXIDIZERS MAY CAUSE FIRE OR EXPLOSION. VAPORS CAN FLOW ALONG SURFACES TO DISTANT IGNITION SO URCE AND FLASH BACK. SENSITIVE TO STATIC DISCHARGE.

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

Spill Release Procedures: VENTILATE AREA OF LEAK/SPILL. REMOVE ALL SOURCES OF IGNITION. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. KEEP UNNECESSARY/UNPROTECTED PERSONNEL FROM ENTERING. CONTAIN & RECOV ER LIQUID WHEN ABLEE. USE NON-SPARKING 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!

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. OUTSIDE OR DETACHED STORAGE IS PERFERRED. SEPARATE FROM INCOMPATI BLES. CONTAINERS SHOULD BE BONDED AND GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS.

Other Precautions:STORAGE & USE AREAS SHOULD BE NO SMOKING AREAS. USE NON-SPARKING TYPE TOOLS & EQUIP-MENT

INCLUDING EXPLOSION PROOF
VENTILATION. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN
EMPTY SINCE THEY RETA IN PRODUCT RESIDUES(VAPORS, LIQUID); OBSERVE
ALL WARNINGS & PRE-CAUTIONS LISTED FOR THE PRODUCT.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:IF THE EXPOSURE LIMIT IS EXCEEDED,A FULL
FACEPIECE RESPIRATOR WITH ORGANIC VAPOR CART-RIDGE MAY BE WORN UP
TO 50 TIMES THE EXPOSURE LIMIT/MAXIMUM USE CONCENTRATION SPECIFIED
BY THE REGULATORY AGENCY/R ESPIRATOR SUPPLIER, WHICHEVER IS
LOWEST.FOR EMERGENCIES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN USE
A FULL-FACEPIECE POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR.
/entilation:A SYSTEM OF LOCAL &/OR GENERAL EXHAUST IS RECOMMENDED TO
KEEP EMPLOYEE EXPOSURE BELOW EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED.
Protective Gloves:NITRILE RUBBER OR NEOPRENE
Eye Protection:CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD.
Other Protective Eq
ipment:EYE WASH FOUNTAIN AND QUICK-DRENCH
FACILITIES IN WORK AREA. WEAR IMPERVIOUS PRO-TECTIVE CLOTHING,
INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROP-RIATE TO PREVENT SKIN CONTACT.
Vork Hygienic Practices:WASH THOROUGHLY AFTER HANDLING ANY CHEMICAL
MATERIAL.
Supplemental Safety and Health
VARNING: AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKER IN
OXYGEN-DEFICIENT ATMOSPHERES.
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HCC:F2
iling Pt:=82.C, 179.6F
Melt/Freeze Pt:=-89.C, -128.2F
/apor Pres:44@25C /apor Density:2.1
Spec Gravity:0.79@20C
Evaporation Rate & Description Reference: 2.83 (BUAC=1)
Solubility in Water:COMPLETELY SOLUBLE
Appearance and Odor:CLEAR COLORLESS LIQUID, RUBBING ALCOHOL ODOR
Percent Volatiles by Volume:100@21C
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Stability Indicator/Materials to Avoid:YES

Stability Indicator/Materials to Avoid:YES
HEAT, FLAME, STRONG OXIDIZERS, ACETALDEHYDE, ACIDS, CHLORINE, ETHYLENE
OXIDE., HYDRO

- GEN-PAL-LADIUM COMBINATION, HYDROGEN PEROXIDE-SULFURIC ACID COMBINATION, POTASSIUM TERT-BUTOXIDE, HYPOCHLOROUS ACID, ISOCYANATES, NITROFORM,
- Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. HEAT, FLAMES, IGNITION SOURCES AND INCOMPATIBLES. HEAT AND SUNLIGHT CAN CONTRIBUTE TO INSTABILITY.
- Hazardous Decomposition Products: CARBON DOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.
- Conditions to Avoid Polymerization: WILL NOT OCCUR.

=======================================	Toxicological	Information	=======================================
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Toxicological Information:ORAL RAT LD50: 5045 MG/KG; SKIN RABBIT LD50: 12.8 GM/KG; INHALATION RAT LC50: 16,000 PPM/8-HOUR; INVESTIGATED AS A TUMORIGEN, MUTAGEN, REPROCUTIVE EFFECTOR.

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

- Ecological:WHEN RELEASED INTO THE SOIL, THIS MATERIAL IS EXPECTED TO QUICKLY EVAPORATE. WHEN RELEASED INTO THE SOIL, THIS MATERIAL MAY LEACH INTO GROUNDWATER. WHE
- N RELEASED INTO THE SOIL, THIS MATERIAL
 MAY BIODE GRADE TO A MODERATE EXTENT. WHEN RELEASED INTO THE WATER,
 THIS MATERIAL IS EXPECTED TO HAVE A HALF-LIFE BETWEEN 1 AND 10
 DAYS. WHEN RELEASED INTO WATER, THIS MATERIAL MAY BIODEGRADE TO A
 MODERATE EXTE NT. THIS MATERIAL IS NOT EXPECTED TO SIGNIFICANTLY
 BIOACCUMULATE. WHEN RELEASED INTO THE AIR, THIS MATERIAL IS
 EXPECTED TO BE READILY DEGRADED BY REACTION WITH PHOTOCHEMICALLY
 PRODUCED HYDROXYL RADICA LS.

==== 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 IN A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTAM INATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. DISPOSE OF CONTAINER IN COMPLIANCE WITH FEDERAL, STATE & LOCAL REGS.

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

Transport Information:DO	MSETIC (LAND D.O.T.):	: PROPER SHIPPING	NAME:
ISOPROPANOL. HAZA	ARD CLASS: 3. UN NO:	UN1219. PACKING G	ROUP: II. AIR
(ICAO): : PROPER SH	IPPING NAME: ISOPRO	PANOL. HAZARD CL	ASS: 3. UN
NO: UN1219, PACKING	G G ROUP: II.		

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

SARA Title III Information:SARA 302: NO. SARA 3131: ISOPROPANOL ALCOHOL (67-63-0) IS LISTED.

Federal Regulatory Information:ISOPROPANOL ALCOHOL AND WATER ARE NOT LISTED UN

DER RCRA OR TSCA.

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

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