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## PHOENIX INDUSTRIES INC -- ISOPROPYL ALCOHOL, TECHNICAL -- 6810-00-286-5435

Product ID:ISOPROPYL ALCOHOL, TECHNICAL

MSDS Date:12/08/1999

FSC:6810

NIIN:00-286-5435

MSDS Number: CKDXP === 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 P

hone 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-D666

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

ACGIH TLV:983 M

G/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 ========================

LD50 LC50 Mixture:LD50 ORAL RAT: 5045 MG/KG

Health Hazards Acute and Chronic:INHALATION: INHALATION OF VAPORS IRRITATES THE RESPIRATORY TRACT. INGESTION: THE SINGLE LETHAL DOSE FOR A HUMAN ADULT = ABOUT 250 MIS (8 OUNCES). SKIN: MAY CAUSE IRRITATION WITH REDNESS & PAIN. MAY BE ABSORBED TH

**ROUGHT THE SKIN** 

WITH POSSIBLE SYSTEMIC EFFECTS. EYE: VAPORS CAUSE EYE IRRITATION. SPLASHES CAUSE SEVERE IRRITATION, POSSIBLE CORNEAL BURNS & EYE DAMAGE. CHRONIC: CHRONIC EXPOSURE MAY CAUSE SKIN EFFECTS.

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

PAIN, CRAMPS, NAUSEA, VOMITING & DIARRHEA MAY ALSO RESULT.

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:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. INGESTION: GIVE LG AMOUNT

S OF WATER TO DRINK.

NEVER GIVE ANYTH ING BY MOUTH TO AN UNSONSCIOUS PERSON. GET MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINS. CALL A PHYSICIAN IF IRRITATION DEVELOPS. EYES: IMMEDIATELY FLUSH E YES WITH PLENTY OF WATER FOR AT LEAST 15 MINS. LIFTING EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

Flash Point Method:CC Flash Point:=12.C, 53.6F Autoignitio n Temp:=399.C, 750.2F

Lower Limits:2.0 Upper Limits:12.7

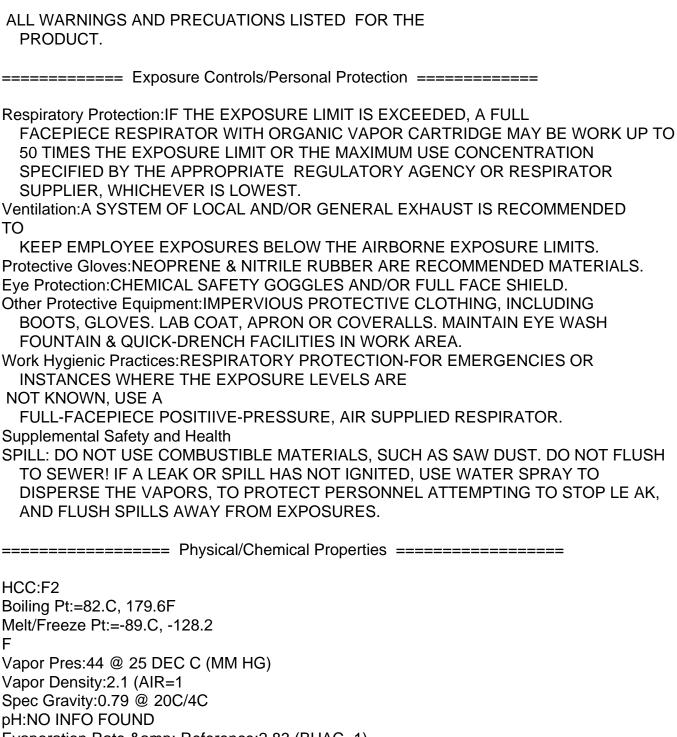
- Extinguishing Media:WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM OR CARBON DIOXIDE. WATER SPRAY MAY BE USED TO KEP FIRE EXPOSED CONTAINERS COOL, DILUTE SPILLS TO NONFLAMMABLE MIXTURES, PROTECT PERSONNEL ATTE
- Fire Fighting Procedures:IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING & NIOSH-APPROVED 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 STRONG OXIDIZERS MAY CAUSE FIRE OR EXPLOSION. VAPORS CAN FLOW ALONG SURFACES TO DISTANT IGNITION S OURCE & FLASH BACK. SENSITIVE TO STATIC DISCHARGE.

| ======== Accidental Release Measures =========== | == |
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- Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL. REMOVE ALL SOURCES OF IGNITION. WEAR APPROPRIATE PERSONAL PROTECTIVE
  - EQUIPMENT. ISOLATE HAZARD AREA. KEEP UNECESSARY & UNPROTECTED PERSONNEL FROM ENTERING. CONTAIN & R ECOVER LIQUID WHEN POSSIBLE. USE NON-SPARKING TOOLS & EQUIPMENT. COLLECT LIQUID IN AN APPROPRIATE CONTAINER OR ABSORB WITH AN INERT MATERIAL & PLACE IN A CHEMICAL WASTE CONTAINER.

| ======================================= | Handling and Sto | orage ======= |  |
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|---|------------------|---------------|--|

- Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM ANY A REA WHERE
  - THE FIRE HAZARD MAY BE ACUTE. OUTSIDE OR DETACHED STORAGE IS PREFERRED. SEPARATE FROM INCOMPATI BLES. CONTAINERS SHOULD BE BONDED & GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS.
- Other Precautions:HANDLING AND STORAGE: STORAGE & USE ARES SHOULD BE NO SMOKING AREAS. USE NONSPARKING TYPE TOOLS & EQUIPMENT, INCLUDING EXPLOSION PROOF VENTILATION. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EM PTY SINCE THEY RETAIN PRODUCT RESIDUES (VAPORS, LIQUID); OBSERVE



Evaporation Rate & Evaporation R

Solubility in Water:MISCIBLE

Appearance and Odor: CLEAR, COLORLESS LIQUID, RUBBING ALCOHOL ODOR Percent Volatiles by Volume:100@20 DEG C

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

Stability Indicator/Materials to Avoid:YES

HEAT, FLAME, STRONG OXIDIZERS, ACETALDEHYDE, ACIDS, CHLORINE, ETHYLENE OXIDE, HYDROGEN-PALLADIUM COMBIN

ATION, HYDROGEN PEROXIDE-SULFURIC ACID COMBINATION, POTASSIUM TERT-BUTOCHLOROUS ACID, ISOCYANATES, NITROFORM, PHOSGENE, ALUMINUM, OLEU Stability Condition to Avoid: STABLE UNDER ORDINARY CONDITIONS OF USE & STORAGE. HEAT, FLAMES, IGNITION SOURCES & INCOMPATIBLES. HEAT & SUNLIGHT CAN CONTRIBUTE TO INSTABILITY. Hazardous Decomposition Products: CARBON DIOXIDE & CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION. Conditions to Avoid Polymerization: WILL NOT OCCUR \_\_\_\_\_ Toxicological Information ========= 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, REPRODUCTIVE 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. WHEN RELEASED INTO THE SOIL, THIS MATERIAL MAY BIODE GRADE TO A MODERATE EXTENT. WHEN RELEASED TO WATER, THIS MATERIAL IS EXPECTED TO QUICKLY EVAPORATE. WHEN RELEASED INTO THE WATER, THIS MATERIAL IS EXPECTED TO HAVE A HALF-LIFE BETWEEN 1 & 10 DAYS. WHE N RELEASED INTO THE WATER, THIS MATERIAL MAY BIODEGRADE TO A MODERATE EXTENT. THIS MATERIAL IS NOT EXPECTED TO SIGNIFICANTLY BIOACCUMULATE. ======= Disposal Considerations ============ Waste Disposal Methods:WHATEVER CA NNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE & SENT TO A RCRA

RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE & SENT TO A RCRA APPROVED INCINERATOR OR DISPOSED IN A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTAMIN ATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE & LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL

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

Transport Information:DOMESTIC(LAND, D.O.T.). PROPER SHIPPING NAME: ISOPROPYL ALCOHOL. HAZAR

| D CLASS: 3. UN NO.: UN1219. PACKING GROUP: II. AIR(ICA0). PROPER SHIPPING NAME: ISOPROPYL ALCOHOL. HAZARD CLASS: 3. UN NO.: UN121 9. PACKING GROUP: II. |
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| ======= Regulatory Information ==========   |
| SARA Title III Information:SARA 313, ISOPROPYL ALCOHOL (67-63-0), LIST: YES.  |
| ========== Other Information =============  |
| Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by el ements of the Department            |
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