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Product ID: ISOPROPYL ALCOHOL

MSDS Date:12/11/2000

FSC:6810

NIIN:00-286-5435

MSDS Number: CKLGN === Responsible Party ===

Company Name: PHOENIX INDUSTRIES INC Address: 1519 CHAMBERLYNE PARKWAY

City:RICHMOND

State:VA ZIP:23222 Country:US

Info Phone Num:804-264-5183

Emergency Phone Num:804-264-5183

Prepa

rer's Name: NOT PROVIDED

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-SB20

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:SP0450-01M-ZA36

CAGE:0YED2

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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 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 ================

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazar

ds Acute and Chronic: INHALATION: VAPORS IRRITATES

RESPIRATORY TRACT. HIGH CONCENTRATIONS HAS NARCOTIC EFFECT, PRODUCING SYMPTOMS OF DIZZINESS, DROWSINESS, HEADACHE, STAGGERING, UNCONSCIOUSNESS AND POSSIBLY DEATH. INGESTIO N: CAN CAUSE DROWSINESS, UNCONSCIOUSNESS, AND DEATH. GASTROINTESTINAL PAIN, CRAMPS, NAUSEA, VOMITING, AND DIARRHEA MAY ALSO RESULT. THE SINGLE LETHAL DOSE, HUMAN ADULT=ABOUT 250 MLS (8 OUNCES). SKIN: CAUSES IRRITATION WITH REDNESS AND PAIN. MAY BE A

**BSORBED THROUGH SKIN WITH** 

POSSIBLE SYSTEMIC EFFECTS. EYE: VAPORS CAUSE EYE IRRITATION. SPLASHES CAUSE SEVERE IRRITATION, POSSIBLE CORNEAL BURNS AND EYE DAMAGE. CHRONIC: SKIN EFFECTS.

**Explanation of Carcinogenicity:NONE** 

Effects of Overexposure:INHALATION: INHALATION OF VAPORS IRRITATES RESPIRATORY TRACT. EXPOSURE TO HIGH CONCENTRATIONS HAS NARCOTIC EFFECT, PRODUCING SYMPTOMS OF DIZZINESS, DROWSINESS, HEADACHE, STAGGERING, UNCONSCIOUSNESS AN D POSSIBLY DEATH. INGESTION: CA

CAUSE DROWSINESS, UNCONSCIOUSNESS, AND DEATH. GASTROINTESTINAL PAIN, CRAMPS, NAUSEA, VOMITING, AND DIARRHEA MAY ALSO RESULT. SKIN: CAUSES IRRITATION WITH REDNESS AND P AIN. EYE: VAPORS CAUSE EYE IRRITATION. 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.

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 First Aid Measures	 	

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. INGESTION: GIVE LARGE AMOUNT OF WATER TO DRINK. NEVER GIVE ANY THING BY MOUTH TO AN UNSONSCIOUS PERSON. GET MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IF IRRITATION DEVELOPS. EYES: IMMEDIATELY FL USH

EYES WITH PLENTY OF WATER FOR AT LEAST 15
MINUTES. LIFTING EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION
IMMEDIATELY.

Flash Point Method:CC Flash Point:=12.2C, 54.F

Autoignition Temp:=398.9C, 750.F

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 AND DILUTE SPILLS TO NONFLAMMABLE MIXTURE

S.

- Fire Fighting Procedures:WATER SPRAY MAY BE USED TO PROTECT PERSONNEL ATTEMPTING TO STOP LEAK AND DISPERSE VAPORS. IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS WI TH 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 ============

Spill Release Procedures: VENTILATE AREA. REMOVE SOURCES OF IGNITION.
WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD
AREA. KEEP UNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING.
CONTAIN AND RECOVER LIQUID WHE N POSSIBLE. USE NON-SPARKING TOOLS
AND EQUIPMENT. COLLECT LIQU

ID IN AN APPROPRIATE CONTAINER OR ABSORB
WITH AN INERT MATERIAL AND PLACE IN A CHEMICAL WASTE CONTAINER. DO
NOT FLUSH TO SEWER.

Neutralizing Agent: NOT RELEVANT

========== 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 PREFERRED. SEPARATE FROM INCOMPATI BLES. CONTAINERS SHOULD BE

BONDED AND GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS.

Other Precautions:STORAGE AND USE AREAS SHOULD BE NO SMOKING AREAS. USE NONSPARKING TYPE TOOLS AND EQUIPMENT, INCLUDING EXPLOSION PROOF VENTILATION. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RE TAIN PRODUCT RESIDUES (VAPORS, LIQUID); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

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

## Respiratory Protectio

n:IF THE EXPOSURE LIMIT IS EXCEEDED, A FULL

FACEPIECE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE MAY BE WORK UP TO 50 TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST. WARNING: AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERE.

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

Protective Gloves: NEOPRENE AND NITRILE RUBBER ARE RECOMMENDED MATERIALS.

Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD.
Other Protective Equipment: IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING
BOOTS, GLOVES. LAB COAT, APRON OR COVERALLS. MAINTAIN EYE WASH
FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

Work Hygienic Practices: NOT PROVIDED

Supplemental Safety and Health

ACCORDING TO TT-I-735A GRADE A MAXIMUM WATER CONTENT IS 0.1 %. THE MANUFACTURER HAS O

NLY THIS MSDS COVERING ALL RANGES OF WATER CONTENTS. FOR EMERGENCIES OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, USE A FULL-FACEPIECE POSITIIVE-PRESSURE, AIR SUPPLIED RESPIRATOR.

========= Physical/Chemical Properties ===========

HCC:F2

NRC/State Lic Num: NOT RELEVANT

Boiling Pt:=82.2C, 180.F

Melt/Freeze Pt:=-89.C, -128.2F

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:44 @ 25C(77F) Vapor Density:2.1 (AIR=1 Spec Gravity:0.79 @ 20C/4C

Viscosity:NOT PROVI

**DED** 

Evaporation Rate & Evaporation R

Solubility in Water:MISCIBLE

Appearance and Odor: CLEAR, COLORLESS LIQUID, RUBBING ALCOHOL ODOR

Percent Volatiles by Volume:100 WT Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, ACETALDEHYDE, ACIDS, CHLORINE, ETHYLENE OXIDE, HYDROGEN-PALLADIUM COMBINATION, HYDROGEN PEROXIDE-SULFURIC ACID COMBINATION, K TERT-BUTOXIDE, HYPOCHLOROU

S ACID, ISOCYANATES,

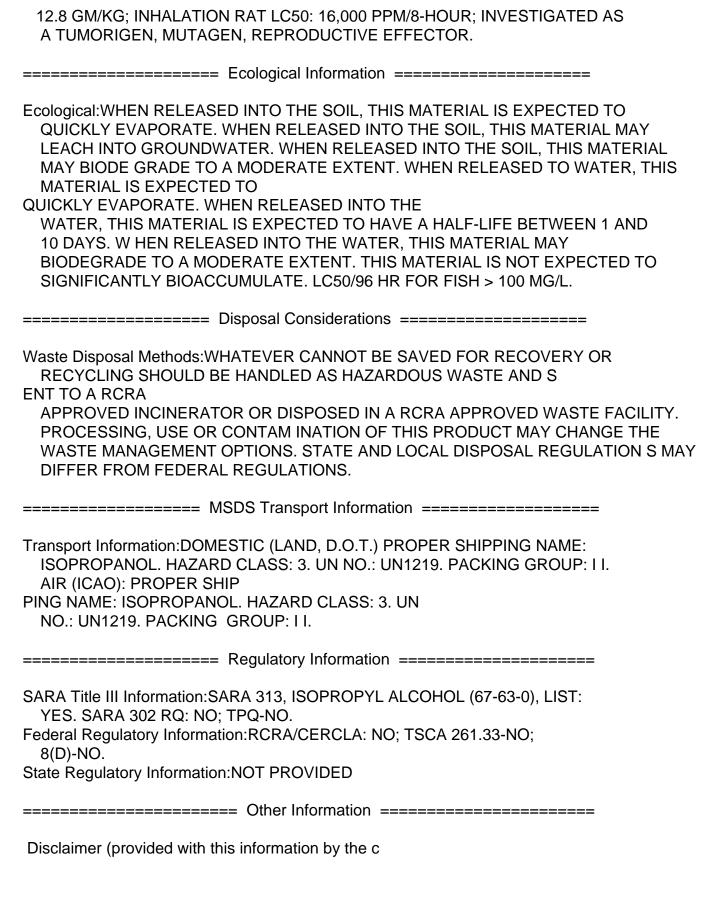
NITROFORM, PHOSGENE, ALUMINUM, O

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 DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.

=========== Toxicological Information =======================		Toxicological Informa	ation ==========
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Toxicological Information: ORAL RAT LD50: 5045 MG/KG; SKIN RABBIT LD50:



ompiling agencies):

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