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PHOENIX INDUSTRIES INC -- ISOPROPYL ALCOHOL -- 6810-01-190-2538

Product ID: ISOPROPYL ALCOHOL MSDS Date:12/11/2000 FSC:6810 NIIN:01-190-2538 Status Code:A MSDS Number: CLGCL === Responsible Party === Company Name: PHOENIX INDUSTRIES INC Address:1519 CHAMBERLAYNE PARKWAY City:RICHMOND State:VA ZIP:23222 Country:US Info Phone Num:804-264-5183/FAX: 264-5535 Emergency Phone Num:714-864-2310 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:SP0450-01-M-ZC66 CAGE:0YED2

Ingred Name:ISOPROPYL ALCOHOL CAS:67-63-0 RTECS #:NT8050000 Minumum % Wt:90. Maxumum % Wt:100. OSHA PEL:400 PPM/500 STEL ACGIH TLV:400 PPM/500STEL;9192

Ingred Name:WAT

ER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:0. Maxumum % Wt:100.

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

Health Hazards Acute and Chronic:INHALATION-INHALATION OF VAPORS IRRITATES THE RESPIRATORY TRACT. EXPOSURE TO HIGH CONCENTRATIONS HAS A NARCOTIC EFFECT. SKIN- MAY BE ABSORBED THROUGH THE SKIN WITH POSSIBLE SYSTEMIC EFFECTS. EYE-VAPOR S CAUSE EYE IRRITATION. SPLASHES CAUSE SEVERE IRRITATION

AND EYE DAMAGE. CHRONIC EXPOSURE:

CHRONIC EXPOSURE MAY CAUSE SKIN EFFECTS.

Explanation of Carcinogenicity: ISOPROPYL ALCOHOL (67-63-0) IARC CATEGORT-3.

Effects of Overexposure:INHALATION-SYMPTOMS OF DIZZINESS, HEADACHE, STAGGERING, UNCONSCIOUSNESS & POSSIBLY DEATH. INGESTION-CAN CAUSE DROWSINESS, UNCONSCIOUSNESS, AND DEATH. GASTROINTESTINAL PAIN, CRAMPS, NAUSEA, VOMITING, A ND DIARRHEA MAY RESULT. SKIN-MAY CAUSE REDNESS AND PAIN. EYE-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:INHALATION: 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 A NYTHING 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, LIFTING EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

Flash Point Method:TOC Flash Point:=12.C, 53.6F Autoignition Temp:Autoignition Temp Text: UNKNON

Lower Limits:2

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:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. USE WATER SPRAY TO KEEP FIRE EXPOS ED CONTAINERS COOL, DILUTE S

PILLS TO NONFLAMMABLE MIXTURES, PROTECT PERSONNEL ATTEMPTING TO STOP LEAK, DISPERSE VAPORS.

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 AND FLASH BACK. SENSITIVE TO STATIC DISCHARGE.

Spill Release Procedures:VENTILATE

AREA. REMOVE SOURCES OF IGNITION.

WEAR PROTECTIVE EQUIPMENT. CONTAIN AND RECOVER LIQUID IF POSSABLE. USE NON-SPARKING TOOLS. COLLECT LIQUID IN APPROPRIATE CONTAINER OR ABSORB WITH INERT MA TERIAL AND PLACE IN CHEMICAL WASTE CONTAINER. DO NOT FLUSH TO SEWER! IFNOT IGNITED, USE WATER SPRAY TO DISPERSE VAPORS, TO PROTECT PERSONNEL ATTEMPTING TO STOP LEAK & TO FLUSH SPILL FROM EXPOSURES.

Handling and S

torage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM POSSABLE FIRE HAZARD AREA. OUTSIDE OR DETACHED STORAGE IS PREFERRED. SEPARATE FROM INCOMPATIBLES. CONTAINERS S HOULD BE BONDED AND GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS.

Other Precautions:STORAGE AND USE AREAS SHOULD BE NO SMOKING AREAS. USE NON-SPARKING TYPE TOOLS AND EQUIP-MENT, INCLUDING EXPLOSION PROOF VENTILATION. CONTAINERS OF THIS MATERIAL MAY BE HAZ ARDOUS WHEN

EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (VAPORS, LIQUID); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUC T.

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

Respiratory Protection: IF LIMIT EXCEEDED, A FULL FACEPIECE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE MAY BE WORN UP TO 50 TIMES EXPOSURE LIMIT OR MAXIMUM CONCENTRATION SPECIFIED BY REGULATORY AGENCY. FOR NOT KNOWN EXPOSURE CO NCENTRATIONS, USE FULL-FACEPIECE POSITIVE-PRESSU

RE, AIR-SUPPLIED RESPIRATOR. WARNING! AIR PURIFYING RESPIRATORS DO NOT PROTECT IN OXYGEN -DEFICIENT ATMOSPHERE. Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP Protective Gloves: WEAR IMPERVIOUS GLOVES. Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD WHERE

Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE.

Other Protective Equipment:EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. WEAR IMPERVIOUS PRO-TECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB CO

AT, APRON OR COVERALLS, AS

APPROPIATE TO PREVENT SKIN CONTACT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING ANY CHEMICAL MATERIAL. AVOID BREATHING VAPOR OR MIST. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.

Supplemental Safety and Health

WARNING: AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKER IN OXYGEN-DEFICIENT ATMOSPHERES.

HCC:F2

Boiling Pt:=82.2C, 180.F Melt/Freeze Pt:=-88.7C, -128.F Vapor Pres:4 4 Vapor Density:2.1 Spec Gravity:0.79 Appearance and Odor:CLEAR,COLORLESS LIQUID, RUBBING ALCOHOLIC ODOR.

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZER, ACETALDEHYDE, ACIDS, CHLORINE, ETHYLENE OXIDE, HYDROGEN-PALLADIUM COMBINATION, HYDROGEN PEROXIDE-SULFURIC ACID COMBINATION, POTASSIUM TERT-BUTOXIDE, HYPOCHLOROUS ACID, ISOCYANATES, NITROFORM, PHOSGENE, ALUM Stability Condition to Avoid:STABLE UNDER ORD  INARY 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.

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, REPRDCU TIVE EFFECTOR.

Ecological:RELEASED INTO SOIL, PRODUCT EXPECTED TO QUICKLY EVAPORATE; MAY LEACH INTO GROUNDWATER; MAY BIODEGRADE TO MODERATE EXTENT. WHEN RELEASED INTO WATER, PRODUCT EXPECTED TO EVAPORATE; HAVE A HALF-LIFE BE TWEEN 1TO 10 DAYS; BIODEGRADE TO MODERATE EXTENT. MATERIAL IS NOT EXPECTED TO BIOACCUMULATE. WHEN RELEASED INTO AIR, EXPECTED TO BE DEGRADED BY REACTION WITH PHOTOCHEMICALLY PRODUC ED

HYDROXYL RADIC ALS; HAVE A HALF-LIFE BETWEEN 1 TO 10 DAYS; MAY BE REMOVED FROM ATMOSPHERE TO A MODERATE EXTENT BY WET DEPOSITION. LC50/96-HOUR VALUES FOR FISH ARE > 100 MG/L. MATERIAL IS NOT EXPECTED TO BE TOXIC TO AQUATIC LIFE.

Waste Disposal Methods:WASTE MATERIAL SHOULD BE HANDLED AS HAZARDOUS WASTE AND SENT TO A RCRA APPROVED INCINERATOR OR A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CON

TAMINATION OF THIS PRODUCT

MAY CHANGE WASTE OPTION S. DISPOSE OF WASTE IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. STATE AND LOCAL REGUL ATIONS MAY DIFFER FROM FEDERAL REGULATIONS.

Transport Information:DOMESTIC (LAND D.O.T.): PROPER SHIPPING NAME: ISOPROPANOL. HAZARD CLASS: 3, UN 1219, PACKING GROUP: I II. AIR (ICAO): : PROPER SHIPPING NAME: ISOPROPANOL, HAZARD CLASS: 3, UN 1219. PACKIN G GROUP: I I.

SARA Title III Information:SARA 302: ISOPROPYL ALCOHOL, CAS#67-63-0: RQ= NO; TPQ= NO. WATER, CAS#7732-18-5: RQ= NO; TPQ= NO. SARA 313: ISOPROPYL ALCOHOL CAS# 67-63-0: LIST= YES; CHEMICAL CATAGORY.= NO. WATER, CAS# 7732-18-5; LIST= NO; CHEMICAL CATG.=NO.
Federal Regulatory Information:ISOPROPANOL ALCOHOL AND WATER ARE NOT LISTED UNDER RCRA OR TSCA.

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particular situation.