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HONEYWELLL, BURDICK & JACKSON -- ISOPROPYL ALCOHOL -- 6810-00-286-5435

======== Product Identification ============

Product ID: ISOPROPYL ALCOHOL

MSDS Date:06/01/2000

FSC:6810

NIIN:00-286-5435

Status Code:A

MSDS Number: CLFVQ === Responsible Party ===

Company Name: HONEYWELLL, BURDICK & JACKSON

Address:1953 SOUTH HARVEY STREET

City:MUSKEGON

State:MI ZIP:49442 Country:US

Info Phone Num:1-800-368-0050

Emergenc

y Phone Num:1-800-707-4555

Resp. Party Other MSDS Num.:B&J0323 Chemtrec Ind/Phone:(800)424-9300

CAGE:UO546

=== Contractor Identification ===

Company Name: HONEYWELL, BURDICK & JACKSON

Address:1953 SOUTH HARVEY STREET

Box:City:MUSKEGON

State:MI ZIP:49442 Country:US

Phone:1-800-368-0050

CAGE:UO546

Company Name: TELECHEM INTERNATIONAL, INC

Address:524 E WEDDELL DRIVE SUITE 3

Box:City:SUNNYVALE

State:CA

ZIP:94089-2115

Country:US

Phone:916-941-3688

Contract Num:SP0450-01-M-ZC72

CAGE:1KH20

= Composition/Information on Ingredients ========== Ingred Name: ISOPROPYL ALCOHOL CAS:67-63-0 RTECS #:NT8050000 = Wt:100.OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3:500 PPM =========== Hazards Identification ========================== LD50 LC50 Mixture:ORAL RAT LD50 = 5045 MG/KG Health Hazards Acute and Chronic: SKIN: REPEATED EXPOSURES TO THE SKIN MAY RESULT IN BURNING ITCHING, REDNESS & DERMATITIS. EYES: LIQUID & VAPOR CONTACT PRODUCES IN TENSE STINGING & BURNING SENSATIONS. IT HAS BEEN REPORTED THAT PROLONG ED CONTACT TO THE LIQUID MAY CAUSE TEMPORARY DAMAGE TO THE EYES, BUT HEALING HAS BEEN PROMPT. INHALATION: EXPOSURE CAN CAUSE RESPIRATORYY TRACT & THROAT IRRITATION, HEADACHES, SHORTNESS OF BREATH & SY MPTOMS SIMILAR TO INTOXICATION. OVEREXPOSURE CAN PRODUCE SEVERE CNS DEPRESSION, COMA & POSSIBLY FATAL RESPIRATORY FAILURE. INGESTION: THE PROBABLE LETHAL DOSE IN AN AN ADULT IS 240 ML BUT AS LITTLE AS 20 ML MAY PRODUCE SYMPTOMS. Effects of Overexposure: SKIN: BURNING ITCHING, REDNESS & DERMATITIS. EYES: INTENSE STINGING & BURNING SENSATIONS. IT HAS BEEN REPORTED THAT PROLONGED CONTACT TO THE LIQUID MAY CAUSE TEMPORARY DAMAGE TO THE EYES, BUT HEALING HAS BEEN PROMPT. INHALATION: RESPIRATORYY TRACT & THROAT IRRITATION, HEADACHES, SHORTNESS OF BREATH & SYMPTOMS SIMILAR TO INTOXICATION. OVEREXPOSURE CAN PRODUCE SEVERE CNS DEPRESSION, COMA & POSSIBLY FATAL RESPIRATOR

Y FAILURE.

INGESTION: THE PROBABLE LETHAL DOSE IN AN AN ADULT IS 240 ML BUT AS LITTLE AS 20 ML MAY PRODUCE SYMPTOMS. SYMPTOMS MAY INCLUDE NAUSEA, ABDOMINAL PAIN, BLEEDING AND CNS DEPRE SSION. DELAYED EFFECTS: NONE KNOWN.

First Aid:SKIN: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING. WASH CLOTHING BEFORE REUSE. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSIST

S, GET MEDICAL
ASSISTANCE. INHALATION: REMOVE FROM EXPOSURE AREA TO FRESH AIR. IF
VICTIM IS NOT BREATHING ADMINISTER ARTIFICIAL RESPIRATION ACCORDING
TO YOUR LEVEL OF TRAINING AND OBTAIN PROFESSIONAL MEDICAL
ASSISTANCE IMMEDIA TELY. INGESTION: IF PATIENT IS CONSCIOUS, RINSE
MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS INSTRUCTED TO DO SO
BY A PHYSICIAN, GET IMMEDIATE MEDICAL ATTENTION. ADVICE TO
PHYSICIAN: NO SPECIFIC IN STRUCTIONS. TREAT SYMPTOMATICALLY.

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

Flash Point Method:CC Flash Point:=11.7C, 53.F

Autoignition Temp:=398.9C, 750.F

Lower Limits:2.0 Upper Limits:12.0

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE OR ALCOHOL RESISTANT FOAM. WATER MAY BE INEFFECTIVE. WATER SPRAY MAY BE USED TO REDUCE VAPORS AND TO COOL CONTAINERS EXPOSED TO FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. DO NOT RELEASE RUNOFF FROM FIRE CONTROL METHODS TO SEWER OR WATERWAYS.

KEEP FIRE EXPOSED CONTAINERS COOL AND REDUCE VAPORS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:FIRE HAZARD WHEN EXPOSED TO HEAT, FLAME OR OXIDIZERS. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL A CONSIDERABLE DISTANCE TO AN IGNITION SOURCE AND FLASHBACK. VAPOR MIXTURES ARE EXPLOSIVE.

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

Spill Release Procedures:(ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT). ELIMINATE SOURCES OF IGNI

TION. ISOLATE THE SPILL AREA.

STOP LEAK IN A SAFE & PRACTICAL MANNER. (IF LEAK CANNOT BE STOPPED EASILY & SAFELY, ADV ISE TRAINED EMERGENCY RESPONSE PERSONNEL OF THE SITUATION.). USING INERT MATERIAL (SUCH AS GROUND CORNCOBS) DIKE THE SPILLED SOLVENT TO PREVENT IT FROM RUNNING INTO DRAINS OR WATERWAYS.

Handling and Storage Precautions: (ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT). STORE IN A

COOL, DRY, WELL VENTILATED AREA, AWAY FROM HEAT, OPEN FLAME OR OTHER IGNITION SOURCES. USE GOOD

PERSONAL HYGIENE & HOUSEKEEPING PRAC TICES. STORE IN AN AREA

DESIGNED FOR STORAGE OF FLAMMABLE LIQUIDS.

Other Precautions: PROTECT CONTAINERS FROM PHYSICAL DAMAGE. FLAMMABLE LIQUID & VAPOR. ONCE LIQUID SOLVENT HAS BEEN COMPLETELY DISPENSED, CONTAINERS WHICH APPEAR "EMPTY" SHOULD BE HANDLED IN THE SAME MANNER AS WHEN THEY WERE "FULL" OF LIQUID SOLVENT. AVOID CONTACT WITH SK

IN, EYES & CLOTHING; AVOID BREATHING VAPOR OR M IST.

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

Respiratory Protection: SEEK PROFESSIONAL ADVICE PRIOR TO RESPIRATOR SELECTION/USE. FOLLOW OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) & IF NECESSARY, WEAR A MSHA/NIOSH-APPROVED RESPIRATOR. FOR EMERGENCY OR NON-ROUTINE OPE RATIONS (CLEANING SPILLS, OR STORAGE TANKS), WEAR A SCBA. WARNING! AIR-PURIFYING REPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIEN

T ATMOSPHERE.

Ventilation: PROVIDE GENERAL OR LOCAL EXHAUST VENTILATION SYSTEMS TO MAINTAIN AIRBORNE CONCENTRAION BELOW PERMISSIBLE TLV LEVELS. LOCAL **EXHAUST VENTILATION IS PREFERRED**

Protective Gloves: CHEMICAL RESISTANT GLOVES

Eye Protection: SAFETY GLASSES ARE CONSIDERED MINIMUM PROTECTION. Other Protective Equipment: GOGGLES OR FACE SHIELD MAY BE NECESSARY DEPENDING ON QUANTITY OF MATERIAL & CONDITIONS OF USE. IMPERVIOUS COVERALLS, CHEMICAL RESISTANT BOOTS AND APRON.

Work Hygienic

Practices: THIS MATERIAL SHOULD BE USED IN CLOSE PROXIMITY TO EYEWASH STATION AND SAFETY SHOWER. USE APPROPRIATE PERSONAL HYGIENE AFTER HANDLING THIS MATERIAL. DO NOT SMOKE IN THE VICINITY OF FLAMMABLE MATERIALS

Supplemental Safety and Health

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

HCC:F2

Boiling Pt:=82.3C, 180.1F Melt/Freeze Pt:=-88.C, -126.4F Vapor Pres: @20C: 33 MMHG

Vapor Density:2.1

Spec Gravity:0.785 @25C

Evaporation Rate & Evaporation R

ACETATE=1) Solubility in Water:COMPLETE Appearance and Odor:CLEAR, COLORLESS LIQUID; SLIGHT ALCOHOL ODOR Percent Volatiles by Volume:100
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, STRON ACIDS, REACTIVE METALS, INCLUDING ALUMINUM. FORMS KETONES IN PRESENCE OF OXYGEN. Stability Condition to Avoid:HEAT, SPARKS & FLAME. DIRECT SUNLIGHT. STABLE AT ROOM TEMPERATURES. AVOID CONTACT W/ IGNITION SOURCES. V
APORS ARE FLAMMABLE. CONTAINERS MAY RUPTURE VIOLENTLY IN FIRE. Hazardous Decomposition Products:INCOMPLETE COMBUSTION CAN GENERATE CARBON MONOXIDE AND OTHER HAZARDOUS GASES. Conditions to Avoid Polymerization:WILL NOT OCCUR.
========= Toxicological Information ==========
Toxicological Information:SKIN IRRITATION (RABBIT)= 500 MG - MILD. EYE IRRITATION: 10 MG - MODERATE; 100 MG - MODERATE.
========== Ecological Information =============
Ecolog ical:RELATIVELY BIODEGRADEABLE. LC50 PIMEPHALES PROMELAS (FATHEAD MINNOWS) 11,160 MG/1/24 HR (STATIC BIOASSAY IN LAKE SUPERIOR AT 18-22 C. LC50 10.4 G/1/96 HR.
======== Disposal Considerations ===========
Waste Disposal Methods:THE INFORMATION OFFERED HERE IS FOR THE PRODUCT AS SHIPPED. USE &/OR ALTERATIONS TO THE PRODUCT SUCH AS MIXING W/OTHER MATERIALS MAY SIGNIFICANTLY CHANGE THE CHARACTERISTICS OF THE MATERIAL & ALTER T HE RCRA CLASSIFICATION & THE PROPER DISPOSAL
METHOD. UNUSED PRODUCT IS A RCRA HAZARDOUS WASTE IF DIS CARDED. RCRA ID NUMBER IS D001.
======== MSDS Transport Information ==========
Transport Information:PSN: ISOPRPYL ALCOHOL, 3, UN1219, II. LABEL: FLAMMABLE LIQUID.
========= Regulatory Information ===========
SARA Title III Information:THERE IS NO RQ AND TPQ FOR ISOPROPANOL. SARA 313 TOXIC CHEMICALS: ISOPRPYL ALCOHOL (ONLY PERSONS WHO MANUFACTURE BY STR

ONG ACID PROCESS ARE SUBJECT TO REPORTING REQUIREMENTS). SARA 311 HAZARD CLASS: I MMEDIATE, AND FIRE.

Federal Regulatory Information:TSCA INVETORY STATUS: LISTED ON INVENTORY.

State Regulatory Information:STATE RIGHT TO KNOW: NONE LISTED. FOREIGN INVENTORY STATUS: LISTED ON THE CANADIAN DSL AND EINECS.

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