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Product ID:CYTO-STAIN MSDS Date:06/01/1995 FSC:6550 NIIN:01-359-1836 Status Code:A **MSDS Number: CKNFN** === Responsible Party === Company Name: RICHARD-ALLAN SCIENTIFIC Address:225 PARSONS ST City:KALAMAZOO State:MI ZIP:49007 Country:US Info Phone Num:800-522-7270 Emergency Phone Num:800-522-7270 Preparer's Name: THERESA M. SCHUTER Chemtrec Ind/Phone:(800)424-9300 CAGE:044N0 === Contractor Identification === Company Name: RICHARD-ALLAN SCIENTIFIC Address:225 PARSONS ST Box:City:KALAMAZOO State:MI ZIP:49007-3538 Country:US Phone:800-522-7270 CAGE:044N0

Ingred Name:ETHANOL CAS:64-17-5 RTECS #:KQ6300000 OSHA PEL:1900 MG/M3;1000 PPM ACGIH TLV:1880 MG/M3;1000 PPM

Ingred Name:ISOPROPANOL CAS:67-63-0 RTECS #:NT8050000 OSHA PEL:980 MG/M3 ;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:METHANOL CAS:67-56-1 RTECS #:PC1400000 OSHA PEL:260 MG/M3;200 PPM ACGIH TLV:262 MG/M3;200 PPM ACGIH STEL:328 MG/M3;250 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ISO-BUTYL KETONE CAS:108-10-1 RTECS #:SA9275000 OSHA PEL:410 MG/M3;100 PPM ACGIH TLV:205 MG/M3;50 PPM ACGIH STEL:307 MG/M3;75 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:GLACIAL ACETIC ACID CAS:64-19-7 RTECS #:AF1225000 OSHA PEL:25 MG/M3;10 PPM ACGIH TLV:25 MG/M3;10 PPM ACGIH STEL:37 MG/M3;15 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Health Hazards Acute and Chronic:SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS. EYE: CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. INGESTION: CAN CAUSE GASTROINTESTINAL IRRI TATION, NAUSEA, VOMITING, DIARRHEA, BLINDNESS, DEATH. INHAL

ATION: EXCESSIVE

INHALATION OF VAPORS CAN CAUSE NASAL & RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS, & EVEN DEATH. CHRONIC: OVEREXPOSURE TO THIS MATERIAL, OR ITS COMPONENTS, HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS: LIVER ABNORMALITIES, EYE D AMAGE, & KIDNEY DAMAGE.

Explanation of Carcinogenicity:NONE LISTED.

Effects of Overexposure: EYE-REDNESS, TEARING, BLURRED VISION.

INGESTION-NAUSEA, VOMITING, DIARRHEA, BLINDNESS, DEATH. INHALATION-DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS & DEATH.

First Aid:SKIN-REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP/MILD DETERGENT & WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS-15 TO 20 MINS. EYE-FLUSH WITH PLENTY OF WATER FOR 15 MINS, OCCASIONALLY LI FTING UPPER & LOWER LIDS. CALL A PHYSICIAN. IF IRRIT

ATION PERSISTS. REFER TO AN OPTAMOLOGIST FOR EVALUATION. INHALATION-REMOVE PATIENT TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, GIVE CPR. KEEP WARM & AT REST. INGEST-DRINK 2 GLASSES OF WATER & INDUCE VOMITING BY GIVING IPECAC SYRUP OR BY STICKING FINGER AT BACK OF THROAT. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. GET MEDICAL AID.

Flash Point Me

thod:TCC

Flash Point:=28.C, 82.4F

Lower Limits:3.3(ETHANOL)

Upper Limits:19.0(EST. ET

Extinguishing Media:ALCOHOL FOAM, DRY CHEMICALS, CARBON DIOXIDE, WATER IN FLOODING AMOUNTS AS FOG. SOLID STREAMS MAY NOT BE EFFECTIVE. Fire Fighting Procedures:COOL FIRE-EXPOSED CONTAINERS WITH WATER FROM SIDE UNTIL WELL AFTER FIRE IS OUT. USE OF WATER SPRAY TO FLUSH SPILLS CAN ALSO DILUTE THE SPILL TO PRODUCE NON-FLAMMABLE MIXTURES. WEAR SELF CONTAINED BR EATHING APPARATUS WITH A FULL FACE PI ECE

OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES. Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION & IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

Spill Release Procedures: FOR SMALL CONTAINERS, PLA

CE THE LEAKING CONTAINER IN A WELL VENTILATED AREA. TAKE UP SMALL SPILLS WITH ABSORBENT MATERIAL AND TRANSFER TO HOOD. PLACE THE WASTE INTO PROPERLY LABELED CONTAINERS FOR LAT ER DISPOSAL.

Handling and Storage Precautions: KEEP CONTAINER CLOSED. KEEP AWAY FROM HEAT & OPEN FLAME. STORE AT ROOM TEMPERATURE: 15 TO 30 DEG C (59 TO 86 DEG F).

Other Precautions:SPILL-FOR LARGER SPILLS, DIKE TO MINIMIZE CONTAMI

NATION & FACILITATE SALVAGE OR DISPOSAL. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL & SHOVELED INTO CONTAINERS. PREVENT RUN-OFF TO SEWERS, STREAMS, BODIES OF WATER. YOUR EMPLOYER MUST COMPLY WIT H EPA RULES.

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATORS ARE ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL. Ventilation:GENERAL MECHANICA L VENTILATION OR FUME HOOD. Protective Gloves:CHEMICAL RESISTANT GLOVES. Eye Protection:CHEMICAL SPLASH GOGGLES. Supplemental Safety and Health

HCC:F3 Boiling Pt:B.P. Text:169 TO 193 DEG F Vapor Pres:33 MMHG Vapor Density:1.2(AIR=1) Spec Gravity:0.887@21 DEG C (WATER=1) Evaporation Rate & amp; Reference:1.7 (BUTYL ACETATE=1) Solubility in Water:COMPLETE Appearance and Odor:REDDISH, BROWN LIQUID, MILD CHARACTERISTIC ODOR Percen t Volatiles by Volume:99

Stability Indicator/Materials to Avoid:YES AVOID CONTACT WITH STRONG OXIDIZING AGENTS. Hazardous Decomposition Products:THERMAL DECOMPOSITION OR BURNING MAY PRODUCE CARBON MONOXIDE AND/OR CARBON DIOXIDE.

Waste Disposal Methods: YOUR EMPLOYER MUST DISPOSE OF WASTE CONTAINING ALCOHOLS IN ACCORDANCE WITH APPLICABLE LOCAL, STATE,

& FEDERAL LAWS (EACH HAS UNIQUE REQUIREMENTS) & IN A MINNER THAT MINIMIZES EXPOSURE OF EMPLOYEES AT THE SITE & OF THE CLEAN-UP CREW. CYTO-STAIN IS CONSIDERED TO BE A HAZARDOUS WASTE. HAZARDOUS WASTE C ODE D001.

Transport Information:TRANSPORTATION: DOT SHIPPING NAME IS "FLAMMABLE LIQUID, N.O.S., DOT HAZARD CLASS IS 3". SHIPPING CONTAINERS: BOTTLES.

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

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articular situation.