

RICHARD-ALLAN SCIENTIFIC -- CYTO-STAIN -- 6550-01-359-1836

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Product Identification  
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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

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Composition/Information on Ingredients  
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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

===== Hazards Identification =====

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 IRRITATION, NAUSEA, VOMITING, DIARRHEA, BLINDNESS, DEATH. INHALATION: 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 DAMAGE, & 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 Measures =====

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 LIFTING UPPER & LOWER LIDS. CALL A PHYSICIAN. IF IRRITATION 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.

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

Flash Point Method: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 BREATHING APPARATUS WITH A FULL FACE PIECE 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.

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

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 LATER DISPOSAL.

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Handling and Storage  
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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 WITH EPA RULES.

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Exposure Controls/Personal Protection  
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Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATORS ARE ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL.

Ventilation:GENERAL MECHANICAL VENTILATION OR FUME HOOD.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Supplemental Safety and Health

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Physical/Chemical Properties  
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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 & Reference:1.7 (BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:REDDISH, BROWN LIQUID, MILD CHARACTERISTIC ODOR

Percent Volatiles by Volume:99

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Stability and Reactivity Data  
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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.

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Disposal Considerations  
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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 MANNER THAT MINIMIZES EXPOSURE OF EMPLOYEES AT THE SITE & OF THE CLEAN-UP CREW. CYTO-STAIN IS CONSIDERED TO BE A HAZARDOUS WASTE. HAZARDOUS WASTE CODE D001.

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

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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