

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

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

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

=====
Composition/Information on Ingredients
=====

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.

=====
Handling and Storage
=====

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 CONTAMINATION & 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.

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

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

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

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

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

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.

=====
Disposal Considerations
=====

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 =====
=====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.