Product ID:56022, PAPANICOLAOU, GILL EA-1 MSDS Date:03/30/1998 FSC:6550 NIIN:01-359-1836 Status Code:A MSDS Number: CLQMM === Responsible Party === Company Name: BIOCHEMICAL SCIENCES INC Address:200 COMMODORE DRIVE City:SWEDESBORO State:NJ ZIP:08085 Country:US Info Phone Num:800-524-029 4 Emergency Phone Num:800-524-0294 Chemtrec Ind/Phone:(800)424-9300 CAGE:0B0Y1 === Contractor Identification === Company Name: BIOCHEMICAL SCIENCES INC Address:200 COMMODORE DRIVE Box:City:SWEDESBORO State:NJ ZIP:08085 Country:US Phone:800-524-0294 CAGE:0B0Y1

Ingred Name:ACETIC ACID; EINECS/ELINCS 200-580-7 CAS:64-19-7 RTECS #:AF1225000 = Wt:2. OSHA PEL:25 MG/M3;10 PPM ACGIH TLV:25 MG/M3;10 PPM ACGIH STEL:37 MG/M3;15 PPM EPA R pt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:PHOSPHOTUNGSTIC ACID; EINECS/ELINCS 235-087-6 CAS:12067-99-1 RTECS #:TH5650000 < Wt:1.

Ingred Name:WATER; EINECS/ELINCS 231-791-2 CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: BALANCE

Ingred Name:METHYL ALCOHOL; EINECS/ELINCS 200-659-6 CAS:67-56-1 RTECS #:PC1400000 Fraction by Wt: ~28.5% 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:EOSIN Y; EINECS /ELINCS 241-409-6 CAS:17372-87-1 RTECS #:LM5850000 < Wt:1.

Ingred Name:ETHYL ALCOHOL; EINECS/ELINCS 200-578-6. CAS:64-17-5 RTECS #:KQ6300000 Fraction by Wt: `66.5% OSHA PEL:1900 MG/M3;1000 PPM ACGIH TLV:1880 MG/M3;1000 PPM

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE: PRODUCES IRRITATION, MAY CAUSE SENSITIZATION TO LIGHT. SKIN: MAY BE ABSORBED THROUGH THE SKIN. INGESTIO N: MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. MAY CAUSE SYSTEMIC TOXICITY WITH ACIDOSIS. MAY CAUSE LIVER AND KIDNEY DAMAGE. MAY CAUSE CENTEAL NERVOUS SYSTEM DEPRESSION. INHALATION: MAY CAUSE LIVER AND KIDNEY DAMAGE. MAY CAUSE VISUAL IMPAIRMENT AND POSSIBLE PERMANENT BLINDNESS. CHRONIC: PR OLONGED OR REPEATED SKIN CONTACT MAY CAUSE DERMATITIS. CHRONIC INHALATION AND INGESTION MAY CAUSE EFFECTS SIMILAR TO THOSE OF ACUTE INHALATION AND INGESTION. Effects of Overexposure

:EYE: IRRITATION, BURNING SENSATION, REDNESS,

TEARING, INFLAMATION, AND POSSIBLE CORNEAL INJURY. SKIN: PROLONGED AND/OR REPEATED CONTACT MAY CAUSE IRRITATION AND/OR DERMATITIS. INGESTION: MAY CAUSE CEN TRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY EXCITEMENT, FOLLOWED BY HEADACHE, DIZZINESS, DROWSINESS, AND NAUSEA. ADVANCED STAGES MAY CAUSE COLLAPSE, UNCONSCIOUSNESS, COMA AND POSSIBLE DEATH DUE T O RESPIRATORY FAILURE. INHALATION: MAY CAUSE DROWSINESS, UNCONSCIOUSN ESS. AND

CENTRAL NERVOUS SYSTEM DEPRESSION.

First Aid:EYES- IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINS, LIFT THE UPPER & LOWER EYELIDS. GET MEDICAL AID IMMEDIATELY. SKIN-GET MEDICAL AID. IMMEDIATELY FLUSH WITH PLENTY OF SOAP & WATER FOR 15 MINS W HILE REMOVING SOILED CLOTHES/SHOES. INGESTION-IF CONSCIOUS & ALERT, GIVE 2-4 CUPFULS OF MILK/WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PER

SON. GET MEDICAL AID IMMEDIATELY. INDUCE VOMITING BY GIVING ONE TSP OF SYRUP OF IPECAC. INHALATION-REMOVE TO FESH AIR IMMEDIATELY. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS HARD, GIVE OXYGEN. GET MEDICAL AID. NOTE TO PHYSICIAN: T REAT SYMPTOMATICALLY & SUPPORTIVELY.

Extinguishing Media:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. IN CASE OF FIRE USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR CHEMICAL FOAM.

Fire Fighting Procedures: AS IN ANY FIRE, WEAR A SELF-CONTAINERD BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. COOL CONTAINERS WITH FLOODING QUANTITIES OF WATER UNTIL W ELL AFTER FIRE IS OUT. Unusual Fire/Explosion Hazard: VAPORS MAY FORM AN EXPLOSIVE MIXTURE WITH AIR. DIRUING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. USE WATE

R SPRAY TO KEEP FIRE-EXPOSED CONTAINE RS COOL. MAY BE IGNITED BY HEAT, SPARKS, AMD FLAME. CONTAINERS MAY EXPLODE WHEN HEATED.

Spill Release Procedures:USE PROPER PERSONAL PROTECTIVE EQUIPMENT. ABSORB SPILL WITH INERT MATERIAL, (E.G., DRY SAND OR EARTH), THEN PLACE INTO A CHEMICAL WASTE CONTAINER. REMOVE ALL SOURCES OF IGNITION. A VAPOR SUPPRESSING F OAM MAY BE USED TO REDUCE VAPORS. WATER SPRAY MAY REDU

CE VAPOR BUT MAY NOT PREVENT IGNITION IN CLOSED SPACES.

Handling and Storage Precautions:HANDLING-KEEP AWAY FROM HEAT, SPARK, & FLAME. KEEP AWAY FROM SOURCES OF IGNITION. STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. HAN DLING-GROUND & BOND CONTAINERS WHEN TRANSFERRING MATERIAL. AVOID CONTACT WITH EYES, SKIN & CLOTHING.

Other Precautio

ns:HANDLING-EMPTY CONTAINERS RETAIN PRODUCT RESIDUE & CAN BE DANGEROUS. KEEP CONTAINER TIGHTLY CLOSED. AVOID CONTACT WITH HEAT, SPARKS & FLAME. DO NOT INGEST OR INHALE. DO NOT PRESSURIZE, CUT, WELD, BRAZ E, SOLDER, DRILL, GRIND OR EXPOSE EMPTY CONTAINERS TO HEAT, SPARKS OR OPEN FLAMES.

Respiratory Protection: FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR

EUROPEAN SATANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY. Ventilation:USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.

Protective Gloves:WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT SKIN EXPOSURE.

Eye Protection:WEAR APPROPIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

Work Hygienic Practi

| ces:WASH THOROUGHLY AFTER HANDLING. USE WITH |
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| ADEQUATE VENTILATION. |
| Supplemental Safety and Health |
| NFPA RATING: (ESTIMATED) HEALTH=1; FLAMMABILITY=3; REACTIVITY=0. MSDS |
| NAME: PAPANICOLAOU STAIN, GILL EA-1. CATALO NUMBERS: 23245671, |
| 23245672, 56022. |
| ====================================== |
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| HCC:F2 |
| Appearance and Odor:LIQUID, ALCOHOL-LIKE ODOR. |
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| ====================================== |
| Stability Indicator/Materials to Avoid:YES |
| "S |
| EE OTHER INFORMATION" |
| Stability Condition to Avoid: IGNITION SOURCES, EXCESS HEAT. |
| Hazardous Decomposition Products: OXIDES OF NITROGEN, OXIDES OF CARBON. |
| Conditions to Avoid Polymerization: WILL NOT OCCUR. |
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| Toxicological Information:LD50/LC50: CAS#64-17-5: INHALATION, MOUSE: |
| LC50=39GM/M3/4H. INHALATION, RAT: LC50=20000PPM/10H. ORAL, MOUSE: |
| LD50=3450 MG/KG. ORAL, RABBIT: LD50=6300 MG/KG. ORAL, RAT: |
| LD50=7060 MG/KG. CAS# |
| 67-56-1: I NHALATION, RAT: LC50=64000 PPM/4H. |
| ORAL, MOSUE: LD50=7300 MG/KG. ORAL, RABBIT: LD50=14200 MG/KG. ORAL, |
| RAT: LD50-5628 MG/KG. SKIN, RABBIT: LD50=15800 MG/KG. CAS# |
| 772-18-5: ORAL, RAT: LD50>90ML/KG. CAS # 17372-87-1: ORAL, MOSUE: |
| LD50=2344 MG/KG. CAS# 12067-99-1: ORAL, RAT: LD50=3300 MG/KG. CAS# |
| 64-19-7: INHALATION, MOUSE: LC50=5620 PPM/1H. ORAL, RAT: LD50=3310 |
| MG/KG. SKIN, RABBIT: LD50=1060 MG/KG. 0 OTHER: SEE ACTUAL ENTRY IN |
| RTECS. |
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| Ecological Information ==================================== |
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Ecological:NO INFORMATION FOUND.

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. RCRA P SERIES WASTES: NONE OF THE COMPONENTS ARE ON THIS LIST. RCRA U SERIES WASTES: CAS# 67-56-1; WASTE NUMBER U154; (IGNITABLE WA STE).

Transport Information: US DOT: SHIPPIN

G NAME: ETHANOL SOLUTION. HAZARD CLASS: 3. UN NUMBER: UN1170. PACKING GROUP: II. CANADIAN TDG: NO INFORMATION FOUND.

SARA Title III Information:SARA REPORTABLE QUNTITIES (RQ): CAS#67-56-1; FINAL RQ=5000 POUNDS (2270 KG). CAS#64-19-7; FINAL RQ=5000 POUNDS (2270 KG). SARA THRESHOLD PLANNING QUANTITIES (TPQ): NONE OF THE COMPONENTS ARE ON THIS L IST. SARA HAZARD CATEGORIES:CAS#64-17-5: ACUTE, CHRONIC, FLA

MMABLE, CAS#67-56-1: ACUTE, FLAMMABLE, CAS#17372-87-1: ACUTE, CAS#12067-99-1: ACUTE, FLAMMABLE, & CAS#64-19-7: ACUTE, CHRONIC, FLAMMABLE. C ERCLA/SARA SECTION 313: THIS MATERIAL CONTAINS METHYL ALCOHOL, WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III & 40 CFR PART 372.

Federal Regulatory Information:TSCA: CAS#64-17-5, CAS#67-56-1, CAS#7732-18-5, CAS#17372-87-1, CAS#12067-99-1, & CAS#64-19-7 IS LISTED ON THE TSCA INVENTORY. HEALTH & SAF

ETY REPORTING LIST: NONE

OF THE COMPONENTS ARE ON THIS LIST. C HEMICAL TEST RULE: NONE OF THE COMPONENTS ARE ON THIS LIST. TSCA SECTION 12B: NONE OF THE COMPONENTS ARE ON THIS LIST. TSCA SIGNIFICANT NEW USE RULE (SNUR): NONE OF THE COMPONENTS ARE ON THIS LIST. CL EAN AIR ACT-CAS#67-56-1 IS LISTED AS A HAZARDOUS AIR POLLUTANT (HAP). CLEAN WATER ACT-CAS# 64-19-7 I S LISTED AS A HAZARDOUS SUBSTANCE UNDER THE CWA. OSHA-HIGHLY HAZARDOUS: NONE OF THE COMPONENTS ARE ON THIS LIST.

State Regulatory Information:ETHYL ALCOHOL CAN BE FOUND ON THE FOLLOWING STATE RIGHT-TO-KNOW LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOTA, MASSACHUSETTS. METHYL ALCOHOL CAN BE FOUND ON THE FOLLOWING STATE RIGHT -TO-KNOW LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOAT, MASSACHUSETTS. PHOSPHOTINGSTIC ACID CAN BE FOUND ON THE FOLLOWING STATE RIGHT-TO-KNOW LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSLYVANIA, MINNESOTA, MASSACHUS

ETTS. ACETIC ACID CAN BE FOUND ON THE FOLLOWING STATE RIGHT-TO-KNO W LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOTA, MASSACHUSETTS. CALIFORNIA: WARNING: THIS PODUCT CONTAINS ETHYL ALCOHOL.

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