

STEPHENS SCIENTIFIC -- C4305 S/P REAGENT ALCOHOL -- 6810-01-277-7864

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Product Identification
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Product ID:C4305 S/P REAGENT ALCOHOL

MSDS Date:01/06/1995

FSC:6810

NIIN:01-277-7864

MSDS Number: CKFJZ

=== Responsible Party ===

Company Name:STEPHENS SCIENTIFIC

Address:107 RIVERDALE RD

City:RIVERDALE

State:NJ

ZIP:07457

Country:US

Info Phone Num:201-831-8900

Emergency Phone Num:201-831-9800

CA

GE:5Z781

=== Contractor Identification ===

Company Name:STEPHENS SCIENTIFIC, A DIVISION OF RICHARD-ALLAN
SCIENTIFIC

Address:92 NEWARK POMPTON TURNPIKE

Box:City:WAYNE

State:NJ

ZIP:07470

Country:US

Phone:616-344-2400

CAGE:5Z781

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Composition/Information on Ingredients
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Ingred Name:ETHYL ALCOHOL

CAS:64-17-5

RTECS #:KQ6300000

Minumum % Wt:89.8

Maxumum % Wt:90.7

OSHA PEL:1900 MG/M3;1000 PPM

ACGIH TLV:1880 MG/M3;1000 PPM

Ingred Name:METHYL ALCOHOL

CAS:67-56-1

RTECS #

:PC1400000
Minumum % Wt:4.7
Maxumum % Wt:4.8
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:ISOPROPYL ALCOHOL
CAS:67-63-0
RTECS #:NT8050000
Minumum % Wt:4.9
Maxumum % Wt:5.1
OSHA PEL:980 MG/M3;400 PPM
ACGIH TLV:983 MG/M3;400 PPM
ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 0.10% MAX

Ingred Name:NON-VOLATILE MATTER
Fraction by Wt: 0.001% MAX

Ingred Name
:OTHER CONTAMINANTS: LESS THAN 0.5% MISCELLANEOUS ORGANIC
CONTAMINANTS NOT TESTED FOR.
< Wt:.5

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ROUTE OF ENTRY: EYES ARE LISTED AS A
ROUTE OF ENTRY. ACUTE: IRRITATION OF MUCOUS MEMBRANES, EYES,
NOSE,THROAT & MEMBRANES OF THE UPPER RESP TRACT. CENTRAL NERVOUS
SYSTEM
DEPRESSION RESEMBLING INTOXIC ATION BY ETHYL ALCOHOL.
EXCITATION IS FOLLOWED BY IMPAIRED MOTOR COORDINATION, SLURRED
SPEECH, SENSORY DISTURBANCES SUCH AS BLURRED & DOUBLE VISION,
DROWSINESS, LOSS OF APPETITE & AN INABILITY TO CONC ENTRATE.
IRRITATION TO SKIN RESULTS IN CRACKING & FLAKING DUE TO DEFATTING
ACTION OF ALCOHOL. HIGH EXPOSURE CAN CAUSE GASTRITIS, BLINDNESS &
DEATH. SPLASHES MAY CAUSE TEMPORARY PAIN & BLURRED VISION. (SEE
SIGNS/SYMPS)
Explanation of Carcin

ogenicity:ETHYL ALCOHOL (ETHANOL): IARC, VOL 44;
1988; GROUP 1 . CARCINOGEN STATUS: POTENTIAL HUM CARCIN (IARC
GROUP-1 FOR ALCOHOLIC BEVERAGES) METHYL ALCOHOL (METHANOL): IARC
GROUP 1; POTEENTIAL HUM CAR CIN. ISOPROPYL ALCOHOL: IARC GROUP 1;
WORKERS INVLVD IN MANUFACTURE OF ISOPROPYL ALCOHOL BY STONG ACID
PROCESS SHOWED INCREASE IN PARANASAL & LARYNGEAL CANCER.

Effects of Overexposure:HEALTH HAZ: CHRONIC: IRRITATION OF THE EYES,
NOSE, THROAT & MUCOUS MEMBRANES OF UPPER R

ESPIRATORY TRACT. CENTRAL

NERVOUS SYSTEM EFFECTS SUCH AS DIZZINESS & SLEEPINESS CAN OCCUR AS
CAN DRYNESS, IRRITAT ION & INFLAMMATION OF THE SKIN. THE
DENATURANTS IN THIS FORMULATION MAY CAUSE CHRONIC KIDNEY & LIVER
DAMAGE. CONTINUED INGESTION OF SMALL AMOUNTS MAY RESULT IN
BLINDNESS. CHRONIC EXPOSURE MAY CAUSE CA NCER.

Medical Cond Aggravated by Exposure:PERSONS WITH LIVER DISEASE, KIDNEY,
EYE OR SKIN DISORDERS, IMPAIRED RENAL &/OR PULMONARY FUNCTION.

POTENTIATES THE

EFFECT OF CARBON TETRACHLORIDE & OTHER HEPATOTOXIC
CHLORINATED ALIPHATIC HYDROCARBONS.

===== First Aid Measures =====

First Aid:INHAL: REMOVE FROM EXPOS AREA TO FRESH AIR IMMED. IF
BREATHING STOPPED, GIVE ARTIF RESP. MAINTAIN AIRWAY & BLOOD PRESS &
ADMINISTER OXYGEN IF AVAIL. KEEP AFFECTED PERSON WARM & AT REST.
TREAT SYMPTOMA TICALLY & SUPPORTIVELY. ADMIN OF OXYGEN SHLD BE DONE
BY QUALIFIED PERSON. GET MED ATTN IMMED. SKIN: RMV CONTAM

CLOTHES &

SHOES IMMED. WASH AFFECTED AREA W/SOAP/MILD DETERGENT & LRG AMTS OF
WATER UNTIL NO FURTHER EVIDENCE OF CHEM REMAINS (APPROX 15-20
MIN). GET MED ATTN IMED. EYE: WASH EYES IMMED W/LRG AMT OF WATER
OCCASIONALLY LIFTING UPPER & LOWER LIDS UNTIL NO FURTHER EVIDENCE
OF CHEM REMAINS (AT LEAST 15-20 MIN). (STATE REGS)

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

Flash Point Method:CC

Flash Point:=12.8C, 55.F

Autoignition Temp:=365.C, 689.F

Lowe

r Limits:4.3

Upper Limits:19

Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR ALCOHOL RESISTANT FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG/ALCOHOL RESISTANT FOAM. (1993 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING & NIOSH APPROVED SCBA W/FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. MOVE CONTAINER FROM FIRE AREA IF CAN DO SO W/O RISK. APPLY COOLING WATER TO SIDES OF EXPOSED CONTAINERS

UNTIL WELL AFTER

FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, (SUPER DAT)

Unusual Fire/Explosion Hazard: DANGEROUS FIRE HAZARD WHEN EXPOSED TO HEAT. FLASHBACK ALONG VAPOR TRAIL MAY OCCUR. VAPOR MAY EXPLODE IF IGNITED IN ENCLOSED AREA. VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL A CONSIDERABLE DISTANCE TO SOURCE OF IGNITION & FLASHBACK. VAPOR-AIR MIXTURES ARE EXPLOSIVE ABOVE FLASH POINT.

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

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Spill Release Procedures: OCCUPATIONAL SPILL: SHUT OFF IGNITION SOURCES. DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. USE WATER VAPOR SPRAY TO REDUCE VAPORS. FOR SMALL SPILL, TAKE UP W/SAND OR OTHER ABSORBENT MATERIAL & PLACE IN CONTAINERS FOR DISPOSAL. FOR LARGER SPILL, DIKE FAR AHEAD OF SPILL FOR DISPOSAL. NO SMOKING, FLAMES, OR FLARES IN SPILL AREA! KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARDOUS AREA & DENY ENTRY.

===== Handling and Storage

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Handling and Storage Precautions: KEEP AWAY FROM HEAT, SPARK & FLAME. KEEP CONTAINER TIGHTLY CLOSED & UPRIGHT TO PREVENT LEAKAGE. USE ONLY WITH ADEQUATE VENT. EXTINGUISH ALL PILOT LIGHTS & TURN OFF HEATER, NON-EXPLOSION PROOF ELECTRIC EQUIP & OTHER SOURCES OF IGNITION DURING USE & UNTIL ALL VAPORS ARE GONE.

Other Precautions: AVOID CONTACT WITH EYES. AVOID Prolonged/Repeated Breathing of Vapor. AVOID Prolonged/Repeated Contact with Skin. WASH THOROUGHLY AFTER HANDLING.

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= Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN . ANY SCBA THAT HAS A FULL FACE PIECE & IS OPERATED IN A PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. ANY SUPPLIED AIR RESP THAT HAS A FULL FACE PIECE & IS OPERATED IN A PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE IN COMBINATION W/AUXILLARY SCBA OPERATED IN PRESSURE DEMAND MODE.

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION AND/OR GENERAL DILUTION VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS GLOVES .WEAR APPROP PROT GLOVES TO PREVENT CONTACT W/SUBSTANCE.

Eye Protection:ANSI APPROVED CHEMICAL WORKERS GOGGLES . EMPLOYEE MUST WEAR (SUP DAT)

Other Protective Equipment:ANSI APPROVED EMERGENCY EYEWASH AND DELUGE SHOWER . EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING & EQUIPMENT TO PREVENT REPEATED OR PROLONGED SKIN CONTACT WITH THIS SUBSTANCE.

Work

Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

EYE PROT: SPLASHPROOF/DUST RESISTANT GOGGS TO PREV EYE CONT. FIREFIGHT: USE UNMANNED HOSE HOLDER/MONITOR NOZZLES; IF THIS IS IMPOSSIBLE, WITHDRAW & LET FIRE BURN. WITHDRAW IMMED IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE/ANY DISCOLORATION OF TANK DUE TO FIRE. ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS (OTHER INFO)

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

Boiling

Pt:=77.8C, 172.F

Melt/Freeze Pt:=-113.3C, -172.F

Vapor Pres:40 MMHG @ 20C

Vapor Density:1.6

Spec Gravity:0.8

Solubility in Water:SOLUBLE. (SEE OTHER INFO)

Appearance and Odor:CLEAR, COLORLESS LIQUID.

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

Stability Indicator/Materials to Avoid:YES

CONTACT THE HAZARDOUS MATERIALS DEPARTMENT AT THE NAVY ENVIRONMENTAL HEALTH CENTER FOR FURTHER INFORMATION: 757-462-5536.

Stability Condition to Avoid:STABLE UNDER NORMAL TEMPERATURES

&

PRESSURES.

Hazardous Decomposition Products: THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC AND HAZARDOUS FUMES BY FORMALDEHYDE AND OXIDES OF CARBON.

Conditions to Avoid Polymerization: HAZARDOUS POLYMERIZATION HAS NOT BEEN FOUND TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

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===== Toxicological Information =====

Toxicological Information: ETHYL ALCOHOL: LOCAL EFFECTS: IRRITANT-INHALATION, SKIN, EYE. ACUTE TOXICITY LEVEL: SLIGHTLY TOXIC BY INHALATION & INGESTION. TARGET EFFECTS: CNS DEPRESSANT; HEPATOTOXIN. ADDITIONAL DATA: ALLERGIC REACTIONS TO ALCOHOL HAVE BEEN REPORTED. METHYL ALCOHOL: LOCAL EFFECTS: IRRITATION- SKIN, EYE. ACUTE TOXICITY LEVEL: SLIGHTLY TOXIC BY DERMAL ABSORPTION & INGESTION; RELATIVELY NON-TOXIC BY INHALATION. ISOPROPYL ALCOHOL: LOCAL EFFECTS: IRRITATION- INHALATION, EYE. ACUTE TOXICITY LEVEL: SLIGHTLY TOXIC BY INGESTION, DERMAL ABSORPTION. TARGET EFFECTS: CNS DEPRESSION. CONTACT NEHC FOR FURTHER INFORMATION: 757-462-5536.

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===== Ecological Information =====

Ecological: DANGEROUS TO AQUATIC LIFE IN HIGH CONCENTRATIONS. MAY BE DANGEROUS IF IT ENTERS WATER INTAKES. NOTIFY LOCAL HEALTH AND WILDLIFE OFFICIALS. NOTIFY OPERATORS OF NEARBY WATER INTAKES.

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

Waste Disposal Methods: DISPOSAL MUST BE IAW STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 40 CFR 262. WASTE MATERIAL SHOULD BE TREATED &/OR DISPOSED OF AT SITE AUTHORIZED TO HANDLE HAZARDOUS CHEMICAL WASTE. APPROPRIATE FEDERAL, STATE & LOCAL REGULATORY AUTHORITIES SHOULD BE CONTACTED BEFORE DISCHARGE, TREATMENT OR DISPOSAL OF WASTE MATERIAL.

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

Transport Information: HM-181 DOT DESCRIPTION: ETHYL ALCOHOL SOLUTIONS, 3, UN1170, GROUP II. PROPER SHIPPING NAME: ETHYL ALCOHOL SOLUTIONS. HAZARD CLASS OR DIVISION: 3. IDENTIFICATION NO.: UN1170.

PACKING

GROUP: II. LABEL (S) REQUIRED (IF NOT EXCEPTED): FLAMMABLE LIQUID. SPECIAL PROVISIONS: T1. PACKING AUTHORIZATIONS: EXCEPTIONS: NONE. NON-BULK PACKAGING: 173.202; FOR LIQUID HAZARDOUS MATERIAL IN PACKING GROUP II. BULK -PACKAGING: 173.242; FOR LIQUID HAZARDOUS MATERIAL. QUANTITY LIMITATIONS: PASSENGER AIRCRAFT OR RAILCAR: 5 L. CARGO AIRCRAFT ONLY: 60 L. VESSEL STORAGE REQUIREMENTS: A. OTHER STOWAGE PROVISIONS: NONE.

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Regulatory Information
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on

SARA Title III Information:SECTION 302 AND 304: EXTREMELY HAZARDOUS SUBSTANCE LIST (40 CFR 355)- NOT LISTED. SECTION 311: HAZARD CATEGORIZATION (40 CFR 370)- ACUTE, CHRONIC AND FIRE. SECTION 313: TOXIC CHEMICALS LISTING (40 CFR 372.65)- LISTED AS A TOXIC CHEMICAL. DISPOSAL: DISPOSAL GUIDELINES: ALCOHOL, DENATURED IS A MIXTURE OF ETHYL, METHYL AND ISOPROPYL ALCOHOL. RCRA: THE UNUSED PRODUCT IS A RCRA HAZARDOUS WASTE IF DISCARDED. THE RCRA ID NUMBER

IS: D001 OR THE APPROPRIATE SPENT SOLVENT CODE.

Federal Regulatory Information:ATF (ALCOHOL TOBACCO AND FIREARMS): DENATURED ALCOHOL, FORMULA 3A IS REGULATED BY THE ATF AND SUBJECT TO CERTAIN RECORD KEEPING AND REPORTING REQUIREMENTS. TSCA (TOXIC SUBSTANCE CONTROL ACT): NO INFORMATION AVAILABLE. CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION & LIABILITY ACT): SECTION 102A HAZARDOUS SUBSTANCE (40 CFR 302.4)- LISTED. REPORTABLE QUANTITY - 5000 LBS. SECTION 101 (14) REPORTABLE

QUANTITY: 5000 LBS. RCRA (RESOURCE CONSERVATION AND RECOVERY ACT): 40 CFR 261.21 HAZARDOUS WASTE NUMBER: D001 OR APPROPRIATE SPENT SOLVENT NUMBER.

State Regulatory Information:NEW JERSEY- STATE RIGHT TO KNOW: ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST: LISTED SUBSTANCE #0844. FIRST AID: EYE: CONTINUE IRRITATING W/NORMAL SALINE UNTIL PH RETURNED TO NORMAL (30-60 MIN). COVER W/S TERILE BANDAGES. GET MED ATTN IMMED. INGEST: REMOVE ETHYL ALCOHOL

BY GASTRIC LAVAGE W/TAP WATER OR EMESIS (DREISBACH HANDBOOK OF POISONING, 11TH ED.) OR BY LAVAGE W/WARM WATER OR 3-5% SODIUM BICARBONATE SOLUTION UNLESS TWO HOURS OR MORE HAVE PASSED SINCE INGESTION (GOSSELIN, CLINICAL TOXICOLOGY OF COMMERCIAL PRODUCTS). SYRUP OF IPECAC MAY BE GIVEN PROMPTLY FOLLOWING INGESTION.

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Other Information
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