



Curtin Matheson Scientific, Inc.
9999 VETERANS MEMORIAL
DOCK A
HOUSTON, TX 77038

FISONS

Isopropyl Alcohol

MATERIAL SAFETY DATA SHEET

MAIL TO: ALBERT EINSTEIN MED CTR
ATTN: MATT AHERN
NORTHERN DIVISION
13TH ST & TABOR RD

PHILADELPHIA, PA 19141

SECTION 1 - NAME AND PRODUCT

MANUFACTURER NAME AND ADDRESS
MALLINCKRODT HIS SOL
PARIS BY PASS

PARIS KY 40361
EMERGENCY PHONE 203-356-0019

COMMON NAME (ON LABEL)

ISOPROPYL ALCOHOL SUPERIOR 99%

TRADE NAME & SYNONYMS

DIMETHYL CARBINOL
IPA
ISOPROPYL ALCOHOL
ISOPROPYL ALCOHOL SUPERIOR 99%

CHEMICAL NUMBER:

ITEM NUMBER: 0749893
VNDR CATLG NBR: M159-08
ENTRY DATE: 02-23-90
CHANGE DATE: 08-10-92
SPECIAL REQUEST

CHEMICAL FAMILY

ALIPHATIC ALCOHOL

CHEMICAL FORMULA

N/G

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS	% (WT)	TLV	PEL
ISOPROPYL ALCOHOL	67-63-0	.00	NOT GIVEN	NOT GIVEN

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).
TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1986-87.

OTHER INGREDIENT INFORMATION

TRADE NAMES SYN 2-PROPANOL, ISOPROPANOL, DOT HAZARDOUS
MATERIAL SHIPPING NAME IS ISOPROPANOL UN/NA ID NO - UN1219.

SECTION 3 - PHYSICAL DATA

BOILING POINT 180F	VOLATILE BY VOLUME (%) 100	VAPOR PRESSURE 33
MELTING POINT -89C	VAPOR DENSITY 2.1	SOLUBILITY IN WATER 100%
EVAPORATION RATE (BUTYL ACETATE = 1) 2.83	SPECIFIC GRAVITY 0.78	

APPEARANCE AND ODOR
CLEAR COLORLESS LIQUID WITH MEDICINAL ODOR.

OTHER PHYSICAL DATA
FREEZING POINT, -127F.

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT

83F @ 100

LOWER EXPLOSIVE LIMIT

2.0 %

UPPER EXPLOSIVE LIMIT

12.7 %

EXTINGUISHING MEDIA

DRY CHEMICAL CO2 FOAM FOR ALCOHOLS. WATERSPRAY WATERFOG.

UNUSUAL FIRE AND EXPLOSION HAZARDS

AUTOIGNITION TEMP 750F. FLAMMABLE LIMITS (5 VOL IN AIR - LOWER APPROX 2, UPPER APPROX 12)

SPECIAL FIRE FIGHTING PROCEDURES

DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTION - DECOMPOSITION PRODUCTS POSSIBLE. FIGHT FIRE FROM SAFE DISTANCE/PROTECTED LOCATION. HEAT MAY BUILD PRESSURE/RUPTURE CLOSED CONTAINERS. SPREADING FIRE. INCREASING RISK OF BURNS/ INJURIES. WATER MAY BE INEFFECTIVE IN FIREFIGHTING DUE TO LOW FLASH POINT. USE WATER SPRAY/FOG FOR COOLING. EVEN IF MATERIAL IS WATER SOLUBLE. MAY NOT BE PRACTICAL TO EXTINGUISH FIRE BY WATER DILUTION.

SECTION 5 - HEALTH HAZARD DATA

HEALTH HAZARDS (ACUTE & CHRONIC)

N/A

PRIMARY ROUTES OF EXPOSURE

N/A

SIGNS AND SYMPTOMS OF EXPOSURE

INHALATION - PROLONGED OVEREXPOSURE MAY CAUSE COUGHING, SHORTNESS OF BREATH, DIZZINESS, AND INTOXICATION. EYE CONTACT. MAY CAUSE MODERATE

SECTION 5 - HEALTH HAZARD DATA (CONTINUED)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
N/A

CARCINOGENICITY

NO INDICATORS GIVEN.

INDICATORS NOT GIVEN

NTP yes NoIARC yes NoOSHA yes No

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: IF OVERCOME BY EXPOSURE, REMOVE VICTIM TO FRESH AIR IMMEDIATELY. GIVE OXYGEN OR ARTIFICIAL RESP. AS NEEDED. OBTAIN EMERGENCY MEDICAL ATTENTION. PROMPT ACTION IS ESSENTIAL. EYE CONTACT RINSE QUICKLY WITH CLEAN WATER FOR 20-30 MINUTES. RETRACT EYELIDS OFTEN. OBTAIN EMERGENCY MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING AS NEEDED. WASH SKIN THOROUGHLY WITH MILD SOAP/WATER. FLUSH WITH LUKEWARM WATER FOR MINUTES. IF STICKY, USE WATERLESS CLEANER FIRST. INGESTION: IF LARGE QUANTITY, GIVE LUKEWARM WATER (PINT) IF VICTIM CONSCIOUS/ALERT. DO NOT INDUCE VOMITING (RISK OF LUNG DAMAGE EXCEEDS POISON RISK). GET MEDICAL HELP.

THRESHOLD LIMITS / TOXICITY DATA

ACGIH (1984) 400PPM OVER 8 HOURS - TLV, 500PPM 15 MIN - STEL. OSHA (1971) 400PPM OVER 8 HOURS
- PEL.

SECTION 6 - REACTIVITY DATA

STABILITY Unstable Stable

CONDITIONS TO AVOID

HIGH TEMPERATURES, STRONG OXIDIZING CONDITIONS.

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZERS, OPEN FLAMES/SPARKS, ALUMINUM METAL, NITROFORM, OLEUM

SECTION 6 - REACTIVITY DATA (CONTINUED)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
 INCOMPLETE COMBUSTION MAY YIELD CARBON MONOXIDE AND OTHER TOXIC GASES.

HAZARDOUS POLYMERIZATION May Occur Will Not Occur
CONDITIONS TO AVOID
 N/A

SECTION 7 - SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 EXTREMELY FLAMMABLE LIQUID. RELEASE CAUSES IMMEDIATE FIRE/EXPLOSION HAZARD LIQUIDS/VAPORS MAY IGNITE. EVACUATE/LIMIT ACCESS. EQUIP RESPONDERS WITH SELF-CONTAINED BREATHING APPARATUS. KILL ALL IGNITION SOURCES. STOP RELEASE. PREVENT FLOW TO SEWERS/PUBLIC WATERS. RESTRICT WATER USE FOR CLEANUP. NOTIFY AUTHORITIES. IMPOUND/RECOVER LARGE LAND SPILL. BLANKET WITH FIREFIGHTING FOAM. SOAK UP SMALL SPILL WITH INERT SOLIDS. USE SUITABLE DISPOSAL CONTAINER ON WATER. MATERIAL SOLUBLE/MAY FLOAT OR SINK. MAY BIODEGRADE. CONTAIN/MINIMIZE DISPERSION/COLLECT. DISPERSE RESIDUE TO REDUCE AQUATIC HARM. REP PER REGULATORY REQUIREMENTS.

WASTE DISPOSAL METHOD
 CONTAMINATES PRODUCT/SOIL/WATER MAY BE RCRA/OSHA HAZARDOUS WASTE DUE TO POTENTIALLY LOW FLASH POINT (SEE 40 CFR 261 & 29 CFR 1910). LANDFILL SOLID AT PERMITTED SITES. USE REGISTERED TRANSPORTERS. BURN CONCENTRATED LIQUID IN SYSTEMS COMPATABLE WITH WATER SOLUBLE WASTES. AVOID FLAMEOUTS. ASSURE EMISSIONS COMPLY WITH APPLICABLE REGULATIONS. DILUTE AQUEOUS WASTE MAY BIODEGRADE. AVOID OVERLOADING/POISONING PLANT BIOMASS. ASSURE EFFLUENT COMPLIES WITH APPLICABLE REGULATIONS.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
 SELF CONTAINED BREATHING APPARATUS IF EXPOSED PER/TLV

LOCAL VENTILATION
 N/A

MECHANICAL VENTILATION
 N/A

SPECIAL VENTILATION
 N/A

SECTION 8 - SPECIAL PROTECTION INFORMATION (CONTINUED)

OTHER VENTILATION
SUFFICIENT FOR NORMAL COMFORT CONTROL

PROTECTIVE GLOVES

N/A

EYE PROTECTION

CHEMICAL SPLASH GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

N/A

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
STORE IN TIGHTLY CLOSED/PROPERLY VENTED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME AND STRONG OXIDIZING AGENTS. USE ONLY NON-SPARKING TOOLS. IF STORED IN DRUMS, BUNG SHOULD BE IN UP POSITION.

SECTION 10 - OTHER INFORMATION

MISCELLANEDUS INFO.
NOTE: NA OR N/A DENOTES NOT-ABAILABLE OR NON-APPLICABLE N/G - NOT GIVEN.