

DEL AMO CHEMICAL CO INC -- ISOPROPYL ALCOHOL -- 6810-00-983-8551

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Product Identification
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Product ID:ISOPROPYL ALCOHOL

MSDS Date:07/26/1996

FSC:6810

NIIN:00-983-8551

Status Code:A

MSDS Number: CKMKK

=== Responsible Party ===

Company Name:DEL AMO CHEMICAL CO INC

Address:535 W 152ND ST

City:GARDENA

State:CA

ZIP:90248-1610

Country:US

Info Phone Num:213-532-9214

Emergency Phone Num:213-532-9214

Resp. Party Other MSDS Num.:ISO200 REVISION A

Preparer's Name:MARY JANE NAGEL

Chemtrec Ind/Phone:(800)424-9300

CAGE:4S284

=== Contractor Identification ===

Company Name:DEL AMO CHEMICAL CO INC

Address:535 W 152ND ST

Box:City:GARDENA

State:CA

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Phone:213-532-9214

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Composition/Information on Ingredients
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Ingred Name:ISOPROPYL ALCOHOL

CAS:67-63-0

RTECS #:NT8050000

= Wt:100.

OSHA PEL:980 MG/M3;400 PPM

ACGIH TLV:983 MG/M3;400 PPM

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

LD50 LC50 Mixture:RAT, ORAL LD50: 5045 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS: SKIN, EYES, RESPIRATORY SYSTEM. INHALATION: VAPOR INHALATION IS IRRITATING TO THE RESPIRATORY TRACT AND CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION AT HIGH CONCENTRATIONS. EYE: EXPOSURE TO THE VAPOR OR DIRECT CONTACT WITH THE LIQUID CAUSES IRRITATION AND POSSIBLE CORNEAL BURNS. SKIN: SOME IRRITATION MAY OCCUR AFTER PROLONGED EXPOSURE. INGESTION: SYMPTOMS INCLUDE, NAUSEA & VOMITING, HEADACHE, FACIAL FLUSHING, DIZZINESS, LOWERED BLOOD PRESSURE, MENTAL DEPRESSION, RESPIRATORY DEPRESSION, KIDNEY INSUFFICIENCY. CHRONIC EFEFCTS: REPEATED SKIN CONTACT CAN CAUSE DRY SKIN & DELAYED HYPER SENSITIVITY REACTIONS IN SOME INDIVIDUALS

Explanation of Carcinogenicity:NO DATA PROVIDED BY RESPONSIBLE PARTY

Effects of Overexposure:INHALATION: VAPOR INHALATION IS IRRITATING TO THE RESPIRATORY TRACT AND CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION AT HIGH CONCENTRATIONS. EYE: EXPOSURE TO THE VAPOR OR DIRECT CONTACT WITH THE LIQUID CAUSES IRRITATION AND POSSIBLE CORNEAL BURNS. SKIN: SOME IRRITATION MAY OCCUR AFTER PROLONGED EXPOSURE. INGESTION: SYMPTOMS INCLUDE, NAUSEA & VOMITING, HEADACHE, FACIAL FLUSHING, DIZZINESS, LOWERED BLOOD PRES SURE, MENTAL DEPRESSION, RESPIRATORY DEPRESSION, KIDNEY INSUFFICIENCY.

Medical Cond Aggravated by Exposure:DERMATITIS OR RESPIRATORY DISORDERS OR KIDNEY DISORDERS.

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

First Aid:INHALATION: REMOVE EXPOSED PERSON TO FRESH AIR AND SUPPORT BREATHING AS NEEDED. EYE CONTACT: DO NOT ALLOW VICTIM TO RUB OR KEEP EYES SHUT TIGHT. GENTLY LIFT EYE LIDS AND CONTINUALLY FLUSH WITH FLOODIN G AMOUNTS OF WATER UNTIL TRANSPORTED TO AN EMERGENCY FACILITY. CONSULT A PHYSICIAN IMMEDIATELY. SKIN CONTACT: QUICKLY REMOVE CONTAMINATED CLOTHES, RINSE WITH FLOODING AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. WASH EXPOSED AREA WITH SOAP & WATER. FOR REDDENED OR BLISTERED SKIN, CONSULT PHYSICIAN. INGESTED: NOTHING BY MOUTH IF UNCONSCIOUS OR CONVULSING. CONTACT POISON CONTROL CENTER. HAVE VICTIM DRI NK 1-2 GLASSES WATER.

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

Flash Point Metho

d:CC

Flash Point:=12.C, 53.6F

Autoignition Temp:=398.9C, 750.F

Lower Limits:2

Upper Limits:12.7

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY, ALCOHOL RESISTANT FOAM OR FOG.

Fire Fighting Procedures:IF POSSIBLE WITHOUT RISK, MOVE CONTAINER FROM FIRE AREA. APPLY COOLING WATER TO CONTAINER SIDE UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. WEAR A SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND/POSITIVE-PRESSURE MODE.

Unusual Fire/Explosion Hazard:CONTAINER MAY EXPLODE IN HEAT OF FIRE. VAPORS MAY TRAVEL TO AN IGNITION SOURCE & FLASH BACK. ISOPROPYL ALCOHOL POSES AN EXPLOSION HAZARD, INDOORS, OUTDOORS AND IN SEWERS.

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

Spill Release Procedures:ISOLATE & DENY ENTRY & STAY UPWIND. SHUT OFF IGNITION SOURCES. CLEANUP PERSONNEL SHOULD PROTECT AGAINST VAPOR INHALATION & SKIN/EYE CONTACT. SMALL SPILL: TAKE UP WITH EARTH, SAND, VERMICULITE OR OTHER ABSORBENT, NONCOMBUSTIBLE MATERIAL & PLACE IN SUITABLE CONTAINERS. LARGE SPILLS: CONTAINMENT FOR LARGE SPILLS, DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL. DO NOT RELEASE TO WATERWAYS.

Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY

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

Handling and Storage Precautions:USE NON-SPARKING TOOLS TO OPEN CONTAINERS. STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT, IGNITION SOURCES AND INCOMPATIBLES. INSTALL ELECTRICAL EQUIPMENT OF CLASS 1, GROUP D.

Other Precautions:NO DATA PROVIDED BY RESPONSIBLE PARTY

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

Respiratory Protection:SEEK PROFESSIONAL ADVICE PRIOR TO RESPIRATOR SELECTION AND USE. FOLLOW OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) AND, IF NECESSARY, WEAR A MSHA/NIOSH-APPROVED RESPIRATOR. SELECT BASED ON ITS SUITABILITY TO PROVIDE ADEQUATE WORKER PROTECTION

N FOR GIVEN WORKING CONDITIONS, LEVEL OF CONTAMINATION,
AND PRESENCE OF SUFFICIENT OXYGEN.

Ventilation:PROVIDE GENERAL OR LOCAL EXHAUST VENTILATION SYSTEMS TO
MAINTAIN AIRBORNE CONCENTRATIONS BELOW OSHA PELS. LOCAL EXHAUST
PREFERRED.

Protective Gloves:CHEMICALLY PROTECTIVE GLOVES WITH GAUNTLETS.

Eye Protection:WEAR PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES
PER 29 CFR 1910.133.

Other Protective Equipment:MAKE EYE WASH STATIONS, SAFETY/QUICK-DRENCH
SHOWERS AND WASHING FACILITIES AVAILABLE IN WORK AREA.

Work Hygienic Practices:NEVER EAT, DRINK OR SMOKE IN WORK AREAS.
PRACTICE GOOD PERSONAL HYGIENE AFTER USING THIS MATERIAL,
ESPECIALLY BEFORE EATING, DRINKING, SMOKING, USING THE TOILET OR
APPLYING COSMETICS.

Supplemental Safety and Health

NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

HCC:F2

Boiling Pt:=-82.5C, 180.5F

Melt/Freeze Pt:=-89.5C, -129.1F

Vapor Pres:44 MM HG @ 77C

Vapor Density:1.

274

Spec Gravity:0.78505

Viscosity:2.1 CP @ 25C

Solubility in Water:APPRECIABLE (>10%)

Appearance and Odor:COLORLESS LIQUID WITH SLIGHT ODOR AND BITTER TASTE.

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

Stability Indicator/Materials to Avoid:YES

ACETALDEHYDE, CHLORINE, ETHYLENE OXIDE, ACIDS AND ISOCYANATES, HYDROGEN
+ PALLADIUM, NITROFORM, OLEUM, PHOSGENE, POTASSIUM T-BUTOXIDE,
OXYGEN, TRINITROMETHANE, BARIUM PERCHLORATE, TETRAFLUOROBORATE,
CHROMIUM TRIOXID

E, ALUM

Stability Condition to Avoid:EXPOSURE TO HEAT, IGNITION SOURCES AND
INCOMPATIBLES.

Hazardous Decomposition Products:THERMAL OXIDATIVE DECOMPOSITION OF
ISOPROPYL ALCOHOL CAN PRODUCE CARBON OXIDES AND ACRID SMOKE.

Conditions to Avoid Polymerization:EXPOSURE TO HEAT, IGNITION SOURCES
AND INCOMPATIBLES.

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

Toxicological Information:EYE EFFECTS: RABBIT, EYE: 100 MG CAUSES
SEVERE IRRITATION. SKIN EFFECTS: RABBIT,

SKIN: 500 MG CAUSED MILD

IRITATION. ACUTE ORAL EFFECTS: RAT, ORAL LD50: 5045 MG/KG CAUSED A CHANGE IN RIGHTING REFLEX AND SOMNOLENCE (GENERAL DEPRESSED ACTIVITY). SEE NIOSH RTECS NT8050000 FOR ADDITIONAL TOXICITY DATA.

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Ecological Information
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Ecological: ECOTOXICITY: (POECILIA RETICULATA) LC50 = 7,060 PPM/7 DAYS;
FATHEAD MINNOW (PIMEPHALES PROMELAS) LC50 = 11,830 MG/L/1 HR. BOD = 133 %/ 5 DAYS. ENVIRONMENTAL DEGRADATION: ON SOIL

, IPA WILL

VOLATILIZE OR LEACH INTO GROUND WATER. BIODEGRADATION IS POSSIBLE BUT RATES ARE NOT FOUND IN AVAILABLE LITERATURE. IT WILL VOLATILIZE (EST 1/2 LIFE = 5.4 DAYS) OR BIODEGRADE IN WATER. IT IS NOT EXPECTED TO BIOCONCENTRATE IN FISH. IN THE AIR, IT REACTS WITH PHOTOCHEMICALLY PRODUCED HYDROXYL RADICALS WITH HALF-LIFE OF ONE TO SEVERAL DAYS. BECAUSE IT IS SOLUBLE, REMOVAL BY RAIN, SNOW OR OTHER PRECIPITATION IS POSSIBLE.

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Disposal Considerations
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Waste Disposal Methods: CONTACT YOUR SUPPLIER OR A LICENSED CONTRACTOR FOR DETAILED RECOMMENDATIONS. FOLLOW APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. CONTAINER CLEANING AND DISPOSAL: TRIPLE RINSE CONTAINERS.

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MSDS Transport Information
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Transport Information: SHIPPING NAME: ISOPROPANOL OR ISOPROPYL ALCOHOL.

HAZARD CLASS: 3. ID NUMBER: UN1219. PACKING GROUP II. LABEL: FLAMMABLE LIQUID. SPECIAL PR

VISIONS (172.101): T1. PACKAGING

AUTHORIZATIONS: A) EXCEPTIONS: 173.150. B) NON-BULK PACKAGING:

173.202. C) BULK PACKAGING: 173.242. QUANTITY LIMITATIONS: A)

PASSENGER AIRCRAFT OR RAILCAR: 5 L. B) CARGO AIRCRAFT ONLY: 60 L.

VESSEL STOWAGE REQUIREMENTS: A) VESSEL STOWAGE: B. B) OTHER: NONE SPECIFIED.

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Regulatory Information
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SARA Title III Information: SARA 311/312 CODES: 1,2,3. SARA TOXIC CHEMICAL (40 CFR 372.65Z): ONLY PER

SONS WHO MANUFACTURE BY THE STRONG ACID PROCESS ARE SUBJECT; NO SUPPLIER NOTIFICATION. SARA EHS (EXTREMELY HAZARDOUS SUBSTANCE) (40 CFR 355): NOTHING STATED ON MSDS.

Federal Regulatory Information:RCRA HAZARDOUS WASTE NUMBER (40 CFR 261.21): NONE STATED. RCRA HAZARDOUS WASTE CLASSIFICATION (40 CFR 261.21): NONE STATED. CERCLA HAZARDOUS SUBSTANCE (40 CFR 302.4) LISTED SPECIFIC PER RCRA, SEC 30 01. CERCLA REPORTABLE QUANTITY (RQ): 100 LB (45.4 KG). OSHA REGULATIONS:

AIR CONTAMINANT (29 CFR 1910.1000, TABLE Z-1, Z-1A).

State Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Other Information =====

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