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Product ID: SPECIALLY DENATURED ALCOHOL (SDA) 3A 190 PROOF MSDS Date:11/28/1995 FSC:6810 NIIN:00-577-4889 MSDS Number: CBRZY === Responsible Party === Company Name: QUANTUM CHEMICAL CORPORATION USI DIVISION Address:11500 NORTHLAKE DRIVE Box:429550 City:C INCINNATI State:OH ZIP:45249 Country:US Info Phone Num:513-530-6917 Emergency Phone Num:713-479-2873/800-424-9300(CHEMTREC) CAGE:78918 === Contractor Identification === Company Name: QUANTUM CHEMICAL CORPORATION USI DIVISION Address:11500 NORTHLAKE DRIVE Box:429550 City:CINCINNATI State:OH ZIP:45249 Country:US Phone:713-479-2873/800-424-9300(CHEMTREC) CAGE:78918 Ingred Name: ETHYL ALCOHOL (ETHANOL) CAS:64-17-5 RTECS #:KQ6300000 Fraction by Wt: 88.1% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9596 Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 7.2% Other REC Limits:NONE SPECIFIED Ingred Name: METHYL ALCOHOL (METHANOL) (SARA 313) (CERCLA) CAS:67-56-1 RTECS #:PC1400000

Fraction by Wt: 4.7%

OSHA PEL:S, 200 PPM

EPA Rpt Qtv:5000 LBS

Other REC Limits:NONE SPECIFIED

ACGIH TLV:S,200PPM/250STEL; 96

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 7060 MG/KG (ETHANOL) Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. INDIVIDUAL RESPONSES TO METHYL ALCOHOL VARY. INGESTION OF LESS THAN 30 ML HAS BEEN FATAL TO HUMANS. IN GENERAL, A FEW OUNCES MAY CAUSE BLINDNESS A ND DEATH. AS LITTLE AS 4 ML MAY BE TOXICIF INGESTED. MAY CAUSE CENTRAL NER VOUS SYSTEM DEPRESSION. Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN. Effects of Overexposure: EYES: IRRITATION. SKIN: IRRITATION, DRYING. INHALATION: HEADACHE, DROWSINESS, LASITUTE, LOSS OF APPETITE, INABILITY TO CONCENTRATE. INGESTION: CENTRAL NERVOUS SYSTEM DEPRESSION, NAUSEA, VOMITING, DIAR RHEA. Medical Cond Aggravated by Exposure: PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOL VING THE SKIN, EYE, RESPIRATORY TRACT, LIVER OR KIDNEY MAY BE AT INCREASED RISK FROM EXPOSURE. First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHIN G. FLUSH WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION: IF CONSCIOUS, GIVE WATER TO DRINK, NOTHING BY MOUTH IF UNCONSCIOUS. SEE DOCTOR IMMEDIATELY. Flash Point Method:TCC Flash Point:55.0F,12.8C Lower Limits:3.3 Upper Limits:19 Extinguishing Media: DRY CHEMICAL, ALCOHOL FOAM, CARBON DIOXIDE. WATER MAY BE INEFFECTIVE. Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. **Unusual Fire/E**

xplosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. VAPORS HEAVIER THAN AIR. CAN TRAVEL ALONG GROUND AND FLASHBACK.

Spill Release Procedures:WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING. CONTAIN SPILLED MATERIAL. TRANSFER TO SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. ELIMINATE ANY SOURCE OF IGNITI ON. VENTILATE AREA. WASH RESIDUE

WITH WATER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN A FLAMMABLE LIQUID STORAGE ROOM OR CABINET. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions:MAKE FREQUENT CAREFUL LEAKAGE INSPECTIONS. ISOLATE FROM OXIDEZERS, CHEMICALS CAPABLE OF SPONTANEOUS HEATING, MATERIALS REACTING WITH AIR OR M

OISTURE TO LIBERATE HEAT, IGNITION SOURCES

AND EXPLOSIVES. KEEP OUT OF DIRECT SUN & AWAY FROM HEAT.

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

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED RESPIRATORS. RESPIRATORS SHOULD BE SELECTED BASED ON THE FORM AND CONCENTRATION OF CONTAMINANT IN AIR & IN ACCORDANCE WITH OSHA (29 CFR 1910.134). Ventilation: MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE.

LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED. Protective Gloves:NEOPRENE, NITRILE, VPC OR NATURAL RUBBER Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health AVOID

PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS. CAUTION: FOR MANUFACTURING, PROCESSING, REPACKING OR INDUSTRIAL USE. NOT FOR HOUSHOLD USE. CONTAINE R HAZARDOUS WHEN EMPTY. EMPTIED CONTAINERS RETAIN RESIDUAL LIQUID AND VAPOR. FOLLOW PRECAUTIONS ON LABEL AND IN MSDS.

HCC:F2 Boiling Pt:B.P. Text:173F,78C Melt/Freeze Pt:M.P/F.P Text:-173F,-114C Vapor Pres:45 Vapor De nsity:1.59 Spec Gravity:0.78-0.85 Evaporation Rate & amp; Reference:1.4 (BUTYL ACETATE = 1) Solubility in Water:COMPLETE Appearance and Odor:CLEAR, COLORLESS LIQUID, ALCOHOL ODOR
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Stability Indicator/Materials to Avoid:YES ACETYL CHLORIDE OR OTHER OXIDIZING AGENTS MAY RESULT IN A VIOLENT REACTION.
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION
Hazardous Decomposition Products:NONE EXPEC TED.
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Waste Disposal Methods:ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES.

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