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Product ID:BUTANOL NORMAL, 3680000 MSDS Date:01/26/1998 FSC:6810 NIIN:00-281-6928 Status Code:A MSDS Number: CJMVJ === Responsible Party === Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT Address:5 HACKBERRY LANE Box:3087 City:CONROE State:TX ZIP:77305 Country:US Info Phone Nu m:409-756-1065/1083 FAX DAVID /SHANAN Emergency Phone Num:614-276-6143 CAGE:4N760 === Contractor Identification === Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT INC Address:2210 HACKBERRY LN Box:687 City:CONROE State:TX ZIP:77305 Country:US Phone:409-756-1065 Contract Num:SP0450-99-MNJ18 CAGE:4N760

Ingred Name:N-BUTYL ALCOHOL (SARA III) CAS:71-36-3 RTECS #:EO1400000 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:100 PPM ACGIH TLV:S, C 50 PPM; 9394 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture: ORAL LD50 (RAT) IS 790 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: BLOOD SYSTEM, KIDNEY AND LUNGS. ACUTE: CAUSES IRRITATION OF SKIN, EYES. INHALATION OR INGESTION OF SMALL AMOUNTS WILL NOT CAUSE ANY HARM. INHALATION ABOVE THRESHOLD MAY BE HARMFUL. SWA LLOWING LARGE AMOUNTS MAY BE HARMFUL. CHRONIC: PROLONGED/REPEATED EXPOSURE MAY CAUSE ANEMIA, KIDNEY AND LUNG DAMAGE. Explanation of Carcinogenicity:NORMAL BUTANOL IS NOT LISTED AS A CARCINOGEN BY NTP, IARC OR REGULATED BY OSHA AS A CARCINOGEN. Effects of Overexposure: CNS EFFECTS: DIZZINESS, HEADACHE, NAUSEA, VOMITING, WEAKNESS, FATIGUE, UNCONSCIOUSNESS, POSSIBLE DEATH. INHALED: COUGHING, WHEEZING, SHORTNESS OF BREAT H. EYES: REDNESS, TEARING, BLURRED VISION. SKIN: DRY SKIN, IRRITATION. Medical Cond Aggravated by Exposure: PRE-EXISTING SKIN, BLOOD, KIDNEY AND LUNG DISORDERS, KIDNEY DISEASE.

First Aid:INHALED: REMOVE TO FRESH AIR. RESTORE BREATHING IF NEEDED.
GET MEDICAL ATTENTION. EYES: FLUSH WITH LOTS OF WATER 15 MINUTES.
SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHES. WASH WITH SOAP AND WATER. IN GESTED: IF CONSCIOUS,
IMMEDIATELY GIVE 2 GLASSES OF WATER
FOLLOWED BY INDUCING VOMITING BY GIVING IPECAC SYRUP OR STICKING

FINGER DOWN THROAT. GET IMMEDIATE MEDICAL ATTENTION.

Flash Point Method:TCC Flash Point:=35.C, 95.F Autoignition Temp:=354.4C, 670.F Lower Limits:1.4% Upper Limits:11.2% Extinguishing Media:ALCOHOL FOAM, WATER FOG, CARBON DIOXIDE, DRY CHEMICAL Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND TO A DISTANT IGNITION SOURCE, IGNITE AND FLASH BACK.

Spill Release Procedures:SMALL: ABSORB ON INERT MATERIAL AND PLACE IN A CONTAINER FOR LATER DISPOSAL. LARGE: ELIMINATE ALL SOURCES OF IGNITION. WEAR PROPER PROTECTIVE EQUIPMENT. ISOLATE AND DENY ENTRY. STOP LEAK, CONTAIN SPIL L. PUMP TO SALVAG

E TANK OR ABSORB W/INERT MATERIAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: STORE IN A COOL, DRY AREA AWAY FROM SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS.

Other Precautions:CONTAINERS OF THIS PRODUCT MAY BE HAZARDOUS WHEN "EMPTY";THEY MAY CONTAIN PRODUCT RESIDUES,ALL HAZARD PRECAUTIONS GIVEN IN THIS MSDS MUST BE OBSERVED.DO NOT WELD,CUT,BRAZE EMPTY CONTAINERS.

PROPERLY BO ND/GROUND CONTAINERS DURING TRANSFER OPS

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

Respiratory Protection: IF WORKPLACE EXPOSURE LIMITS EXCEED, USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR SELF-CONTAINED BREATHING APPARATUS. USE IAW 29 CFR 19101.34.
Ventilation: USE ADEQUATE EXPLOSION-PROOF MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW PEL/TLV.
Protective Gloves: NITRILE
Eye Protection: SAFETY GLASSES/CHE
MICAL SPLASH GOGGLES
Other Protective Equipment: IMPERVIOUS CLOTHING TO PREVENT PROLONGED OR REPEATED SKIN CONTACT.
Work Hygienic Practices: WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health

HCC:F3 Boiling Pt:=117.2C, 243.F Vapor Pres:4.4 MM HG @60F Vapor Density:2.6(AIR=1) Spec Gravity:>0.807(WATER=1) VOC Pounds/Gallon:810 VOC Grams/L iter:6.75 Viscosity:N/3.0 CPS Evaporation Rate & amp; Reference:0.46 (N-BUTYL ACETATE=1) Solubility in Water:SLIGHT (7.9%) Appearance and Odor:COLORLESS LIQUID; ALCOHOL ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, ALUMINUM, CHROMIUM TRIOXIDE Stability Condition to Avoid:AVOID SOURCES OF IGNITION AND CONTACT WITH STRONG OXIDIZING AGENTS, ALUMINUM, OR CHROMIUM TRIOXI

DE.

Hazardous Decomposition Products: CARBON MONOXIDE AND CARBON DIOXIDE

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. EPA WASTE D001 MAY APPLY.

Transport Information:REGULATED.

SARA Title III Information:SEC 302= NOT LISTED; CERCLA RQ=5000 LBS; SEC

311/312 HAZ CLASS: IMMEDIATE, DELAYED & FIRE=YES; SARA 313= LISTED. Federal Regulatory Information:TASCA INVENTORY= LISTED. State Regulatory Information:CA 65= NO; NJ AND PA= YES; CANADIAN DSL = YES.

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