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CHEMICAL SPECIALISTS AND DEVELOPMENT -- BUTANOL NORMAL, 3680000 -- 6810-00-281-6928

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

State:TX ZIP:77305 Country:US Info Phone Num

: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

======= Composition/Information on Ingredients ========

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

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

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 A

NY 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 BREATH

. 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.

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

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 SALVAGE TANK OR ABSORB W/INERT MATERIAL. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============= Handling and Storage ========================== 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.P ROPERLY 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/CHEM ICAL 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

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

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/Li

Evaporation Rate & Evaporation R	
======== Stability and Reactivity Data =========	
Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, ALUMINUM, CHROMIUM TRIOXIDE Stability Condition to Avoid:AVOID SOURCES OF IGNITION AND CONTAC STRONG OXIDIZING AGENTS, ALUMINUM, OR CHROMIUM TRIOXID E.	T WITH
Hazardous Decomposition Products:CARBON MONOXIDE AND CARBON D	DIOXIDE
========= Disposal Considerations ===========	===
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STEDERAL REGULATIONS. EPA WASTE D001 MAY APPLY.	TATE AND
======= MSDS Transport Information =========	====
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= Federal Regulatory Information:TASCA INVENTORY= LISTED. State Regulatory Information:CA 65= NO; NJ AND PA= YES; CANADIAN DS YES.	
Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and dis	

ter:6.75

Viscosity:N/3.0 CPS

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