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## CELANESE LTD -- 216311, N-BUTANOL -- 6810-00-281-6928

Product ID:216311, N-BUTANOL

MSDS Date:07/03/1997

FSC:6810

NIIN:00-281-6928

Status Code:A

MSDS Number: CLMMS === Responsible Party ===

Company Name: CELANESE LTD Address: 1601 W LBJ FREEWAY

Box:819005 City:DALLAS State:TX

ZIP:75381-9005

Country:US

Info Phone Num:972-443-4000

Emergency Phone Num:800-835-5235

Resp

. Party Other MSDS Num.:18 Preparer's Name:NOT PROVIDED Chemtrec Ind/Phone:(800)424-9300

CAGE:1EEP4

=== Contractor Identification === Company Name:CELANESE LTD Address:1601 W LBJ FREEWAY

Box:819005 City:DALLAS State:TX

ZIP:75381-9005

Country:US

Phone:972-443-4000

CAGE:1EEP4

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:SP0450-01-M-ZG19

CAGE:4N760

====== Composition/Informa

tion on	Ingredients	==========
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Ingred Name:N-BUTANOL CAS:71-36-3

RTECS #:EO1400000

= Wt:99.8

Other REC Limits:NOT PROVIDED OSHA PEL:300 MG/M3;100 PPM ACGIH STEL:C152 MG/M3;C50 PPM

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture:LD50 (ORAL, RAT) 2.5 G/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:IMMEDIATE EFFEC

TS: SKIN: CAN CAUSE

MODERATE INJURY (REDDENING AND SWELLING). EYES: CAN CAUSE SEVERE INJURY. DAMAGE REVERSIBLE. INHALATION: CAUSES IRRITATION OF NASAL PASSAGES. CAUSES NAUSEA, DIZZINESS, HEADACHE AND STUPOR. PROLONGED EXPOSURE CAN CAUSE HEARING IMPAIRMENT. INGESTION: CAUSES MOUTH AND THROAT IRRITATION. CAN CAUSE NAUSEA, DIZZINESS, HEADACHE AND STUPOR.

**Explanation of Carcinogenicity:NONE** 

Effects of Overexposure: SKIN: CAN CAUSE REDDENING AND SWELLING.

**INHALATION: CAUSE** 

S IRRITATION OF NASAL PASSAGES. CAUSES NAUSEA, DIZZINESS, HEADACHE AND STUPOR. PROLONGED EXPOSURE CAN CAUSE HEARING IMPAIRMENT. INGESTION: CAUS ES MOUTH AND THROAT IRRITATION. CAN CAUSE NAUSEA, DIZZINESS, HEADACHE AND STUPOR.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

## Fir

St Aid:SKIN: REMOVE CONTAMINATED CLOTHING AND WASH CONTAMINATED SKIN WITH LARGE AMOUNT OF SOAP AND WATER. IF IRRITATION PERSISTS CONTACT A PHYSICIAN. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CONTACT A PHYSICIAN IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, THEN OXYGEN, IF NEEDED. CONTACT A PHYSICIAN IMMEDIATELY. INGESTION: INDUCE VOMITING OF CONSCIOUS PATIENT IMMEDIATELY BY GIVING TWO GLASSES OF WATER AND PRESSIN

G FINGER DOWN THROAT. CONTACT A PHYSICIAN IMMEDIATELY. Flash Point Method:CC Flash Point:=36.7C, 98.F Lower Limits: 1.4 Upper Limits:11.2 Extinguishing Media: USE CARBON DIOXIDE OR DRY CHEMICAL FOR SMALL FIRES; ALCOHOL-TYPE AQUEOUS FILM-FORMING FOAM OR WATER SPRAY FOR LARGE FIRES. WATER MAY BE INEFFECTIVE. Fire Fighting Procedures: IN THE EVENT OF FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED **BREATHING APPARATUS WITH** FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. WATER SHOULD BE USED TO COOL FIRE EXPO SED STRUCTURES AND VESSELS. Unusual Fire/Explosion Hazard: VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP. MATERIAL CREATES A SPECIAL HAZARD BECAUSE IT FLOATS ON WATER. ======== Accidental Release Measures ============= Spill Release Pro cedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION, VENTILATE AREA, USE NON-SPARKING TOOLS AND EQUIPMENT. COLLECT LIQUID IN AN APPROPRIATE CONTAINER OR ABSORB WITH AN INERT MATERIAL (VERMCULITE, DRY SAND OR EARTH) FOR REUSE/RECYCLING OR DISPOSAL. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS. CALL 800-424-8802 IF RQ=5000 LBS ARE SPILLED. Neutralizing Agent: NOT RELEVANT ============= Handling and Storage ========================== Handling

and Storage Precautions:STORE IN A COOL, WELL VENTILATED AREA.
KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER TIGHTLY
CAPPED WHEN NOT IN USE. ALWAYS OPEN CONTAINERS SLOWLY. WHEN
TRANSFERRING, FOLLOW PROPER GROUNDING P ROCEDURES. USE
SPARK-RESISTANT TOOLS. USE WITH ADEQUATE VENTILATION.

Other Precautions:AVOID BREATHING VAPORS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. DECONTAMINATE SOILED CLOTHING THOROUGHLY. D

## ISCARDED CONTAMINATED LEATHER CLOTHI NG.

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

Respiratory Protection:IF THE EXPOSURE LIMIT IS EXCEEDED, A FULL FACEPIECE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE MAY BE WORN UPTO 50 TIMES THE EXPOSURE LIMIT OR THE MAXIMUM LIMIT SUPPLIED BY THE RESPIRATOR SUPPLIER, WHIC HEVER IS LOWEST. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Ventilation: A SYSTEM OF LOCAL AND/

OR GENERAL EXHAUST IS RECOMMENDED TO

KEEP EMPLOYEE EXPOSURE BELOW THE AIRBORNE EXPOSURE LIMITS.

Protective Gloves: RUBBER, NEOPRENE.

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES/FACE SHIELD.

Other Protective Equipment: MAINTAIN EYE WASH STATION & SAFETY SHOWERS IN WORK AREA. SKIN PROTECTION: IMPERVIOUS CLOTHING INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE

Work Hygienic Practices:DLA-HMIS STAFF: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDU

RES.

Supplemental Safety and Health

WARNING: AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

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

HCC:F3

NRC/State Lic Num: NOT RELEVANT

Boiling Pt:=117.7C, 243.9F

Melt/Freeze Pt:=-89.7C, -129.8F

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:4.4 @ 68F/20C

Vapor Density:2.57

Spec Gravity:0.81

Viscosity: NOT PROVIDED

Evaporation Rate & Reference: 0.45 (BUTYL ACETATE=1)

Solubility in Water: 7.8

% @ 20C/68F

Appearance and Odor:CLEAR, COLORLESS, MOBILE LIQUID - MILDL ALCOHOL ODOR

Percent Volatiles by Volume:100.0 Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS SUCH AS HYDROGEN PEROXIDE, NITRIC ACID, PERCHLORIC ACID OR CHROMIUM TRIOXIDE.

Stability Condition to Avoid: HEAT, SPARKS, FLAME

Hazardous Decomposition Products: CARBON MONOXIDE

====== Toxicological Inf

ormation ===========
Toxicological Information:ORAL RAT LD50= 2,500 MG/KG, SLIGHTLY TOXIC. INHALATION RAT LC50= 8000 PPM/4H, PRACTICALLY NON-TOXIC. SKIN RABBIT LD50= 4,200 MG/K, SLIGHTLY TOXIC. NO MUTAGENICITY.
========= Ecological Information ===========
Ecological:NOT AVAILABLE
======== Disposal Considerations ==========
Waste Disposal Methods:ALL NOTIFICATION, CLEAN-UP AND DISPOSAL SHOULD BE CARRIED OUT IN ACCORDANCE WIT H FEDERAL, STATE AND LOCAL REGULATIONS. PREFERRED METHODS OF WASTE DISPOSAL ARE INCINERATION OR BIOLOGICAL TREATMENT IN F EDERAL/STATE APPROVED FACILITY. HAZARDOUS WASTE (40 CFR 261): YES: U031.
========= MSDS Transport Information ===========
Transport Information:PROPER SHIPPING NAME: BUTANOLS. HAZARD CLASS: 3. UN NO: UN1120. PACKING GROUP: III. RQ = 5000 LBS.
============= Regulatory Information ========================
SARA Title III Information :SARA 313: LISTED. CERCLA: N-BUTANOL 99.8%  (71-36-3). SARA 304: N-BUTANOL 99.8% (71-36-3). SARA 311: ACUTE HEALTH: YES, CHRONIC HEALTH: YES. FIRE: YES, SUDDEN RELEASE OF PRESSURE: NO, REACTIVE: NO. Federal Regulatory Information:ON TSCA OR QUALIFY FOR AN EXEMPTION State Regulatory Information:STATE REGULATIONS: THE FOLLOWING CHEMICAL IS SUBJECT TO THE RIGHT-TO-KNOW REGULATIONS IN THESE STATES: N-BUTANOL: CT, FL, LA, MA, NJ, NY, PA, RI.

====== Other Informat ion =========

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