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## EM SCIENCE, A DIVISION OF EM INDUSTRIES -- 84-9790, BUTYL ALCOHOL -- 6810-00-241-4709

Product ID:84-9790, BUTYL ALCOHOL

MSDS Date:03/10/1995

FSC:6810

NIIN:00-241-4709

Status Code:A

MSDS Number: CLDWL === Responsible Party ===

Company Name: EM SCIENCE, A DIVISION OF EM INDUSTRIES

Address:480 DEMOCRAT RD

Box:70

City:GIBBSTOWN

State:NJ ZIP:08027 Country:US Info Phone

Num:856-423-6300

Emergency Phone Num:800-424-9300 Chemtrec Ind/Phone:(800)424-9300

CAGE:KO703

=== Contractor Identification ===

Company Name: CAROLINA BIOLOGICAL SUPPLY CO

Address:2700 YORK RD Box:City:BURLINGTON

State:NC

ZIP:27215-3387

Country:US

Phone:800-227-1150/910-584-0381 Contract Num:MDA414-01-P-0251

CAGE:59896

Company Name: CAROLINA BIOLOGICAL SUPPLY CO

Address:2700 YORK RD Box:City:BURLINGTON

State:NC

ZIP:27215-3387

Country:US

Phone:800-227-1150/910-584-0381 Contract Num:MDA414-01-P-031 8

CAGE:59896

Company Name: EM SCIENCE, A DIVISION OF EM INDUSTRIES

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

Ingred Name:BUTYL ALCOHOL

CAS:71-36-3

RTECS #:EO1400000

= Wt:100.

OSHA PEL:300 MG/M3;100 PPM ACGIH STEL:C152 MG/M3;C50 PPM

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

Routes of Entry: Inha

lation:YES Skin:UNKNOWN Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

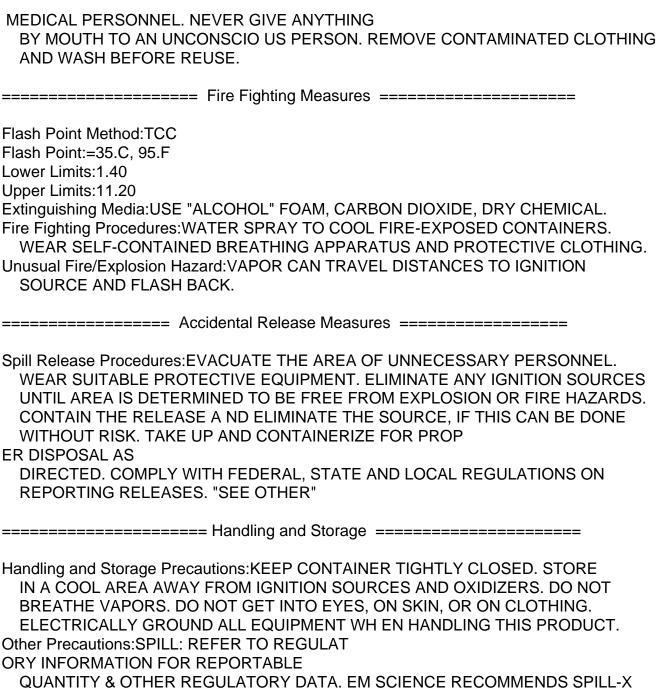
Explanation of Carcinogenicity: THIS MATERIAL IS NOT LISTED AS CANCER CAUSING AGENT.

Effects of Overexposure:HARMFUL IF INHALED OR SWALLOWED; CAUSES HEADACHE, NAUSEA, GASTROINTESTINAL DISTURBANCES. VAPOR IRRITATING TO EYES AND RESPIRATORY PASSAGES. LARGE CONCENTRATIONS OR CONTINUED OVEREXPOSURE MAY CAUSE HEA RING LOSS, KIDNEY OR LIVER INJURY. IRRITATING ON CONTACT WITH EYES OR SKIN.

Me

dical Cond Aggravated by Exposure: KIDNEY AND LIVER CONDITIONS.

First Aid:GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. INHALTION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED. INGESTION: IF CONSCIOUS, DRINK WATER AND INDUCE VOMITING IMMEDIATELY AS DIRECTED BY



Other Precautions: SPILL: REFER TO REGULAT

ABSORBENT AGENT FOR VARIOUS TYPES OF SPILLS. ADDITIONAL INFORMATION CAN BE PROVIDE D THROUGH THE EM SCIENCE TECHNICAL SERVICE DEPARTMENT (856) 423-6300. USE SX0863 SOLVENT SPILL TREAT EMENT KIT.

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

Respiratory Protection: IF WORKPLACE EXPOSURE LIMITS OF PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA APPROVED A

IR SUPPLIED

RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS(NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS.

Ventilation: ENGINEERING AND/OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.MATERIAL MUST BE HANDLED/TRANSFERRED IN APPROVED FUME HOOD.

Protective Gloves:BUTYL RUBBER, NEOPRENE, PVC OR EQUIVALENT.

Eye Protection: SAFETY GLASSES WITH SIDE SHIELDS

Other Protective Equipment

:EYE WASH AND SAFETY EQUIPMENT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY.

Supplemental Safety and Health

PRODUCT NAME: BUTYL ALCOHOL. SYNONYMS: N-1-BUTANOL. CHEMICAL FAMILY: ALIPHATIC ALCOHOL. FORMULA: CH3CH2CH2CH2OH. MOLECULAR WEIGHT: 74.12. CATALOG NUMBERS: BX1777, BX 1780; BX1780S.

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

HCC:F2

Boiling Pt:=117.7C, 243.9F Melt/Freeze Pt:=-89.C, -128.2F

Vapor Pres:420C Vapor Densit

y:2.55

Spec Gravity:0.810

Evaporation Rate & Evaporation R

Solubility in Water:7.7%

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC ALCOHOL

Percent Volatiles by Volume:99+%

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

Stability Indicator/Materials to Avoid:YES

ACIDS, OXIDIZERS, OTHER: HALOGENS, ALUMINUM, ALKALI METALS. Stability Condition to Avoid:HEAT, CONTACT WITH IGNITION SOURCES.

Hazardous Decomposition Products:COX.

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| ======= Toxicological Information ===========   |
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| Toxicological Information:TOXICITY DATA. ORL-RAT LD50: 790 MG/KG. IHL-RAT LC50: 8000 PPM/4H. IHL-HMN TCLO: 25 PPM. TOXICOLOGICAL FINDINGS: TEST ON LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE ADVERSE MUTAGENIC AND REPRODUC TIVE EFFECTS. CITED IN REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS). |
| ======= Disposal Considerations ===========   |
| Waste Disposal Methods:EPA WASTE NUMBERS: U031,   |
| D001. TREATMENT: INCINERATION, FUELS BLENDING OR RECYCLE. CONTACT YOUR LOCAL PERMITTED WASTE DISPOSAL SITE (TSD) FOR PERMISSIBLE TREATMENT SITES. ALWAYS CONTACT A PERMITTED WA STE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT, LOCAL, STATE AND FEDERAL REGULATIONS.                                     |
| ========= MSDS Transport Information ===========  |
| Transport Information:DOT PROPER SHIPPING NAME: BUTANOL. DOT ID NUMBER: UN1120.   |
| ======================================  |
| SARA Title III Information:BUTYL ALCOHOL: OSHA FLOOR LIST-Y. SARA 313-Y. 5000 DEMINIMIS FOR SARA 313 (%)-1.0. Federal Regulatory Information:THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.  |
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| Disclaimer (provided with this information by the compiling agencies):  |

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