

## **2-(2-N-BUTOXYETHOXY)ETHANOL**

### **MSDS Number**

BJFHS

### **National Stock Number**

6810-00N011562

### **Product Name**

2-(2-N-BUTOXYETHOXY)ETHANOL

### **Manufacturer**

MALLINCKRODT INC SCIENCE PRODUCTS DIV

### **Product Identification**

Product ID:2-(2-N-BUTOXYETHOXY)ETHANOL

MSDS Date:01/13/1987

FSC:6810

NIIN:00N011562

MSDS Number: BJFHS

### **Responsible Party**

MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION

PARIS , KY 40361

US

Emergency Phone: 314-982-5000

Info Phone: 314-982-5000

Cage: 62910

### **Contractor**

MALLINCKRODT SPECIALTY CHEMICALS CO

PHILLIPSBURG, NJ 08865

US

908-859-2151

Cage: 62910

### **Ingredients**

2-(2-N-BUTOXYETHOXY)-ETHANOL (DIETHYLENE GLYCOL MONOBUTYL

CAS: 112-34-5

RTECS: KJ9100000

OSHA PELN/K

ACGIH TLV: N/K

### **Hazards**

LD50 LC50 Mixture:LD50 RAT ORAL 6560 MG/KG,(SEE SUPP DATA)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:CAN BE ABSORBED THROUGH THE SKIN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYES:CONTACT WILL CAUSE MODERATE IRRITATION AND

TRANSIENT CORNEAL INJURY.SKIN:CAUSES MINOR SKIN IRRITATION.CAN BE

ABSORBED THROUGH SKIN.INGESTION:MAY CAUSE

NAUSEA,HEADACHE,VOMITING.INHALATION:VAPORS O R MISTS WILL CAUSE

IRRITATION TO UPPER RESPIRATORY TRACT.

Medical Cond Aggravated by Exposure:NO INFORMATION FOUND.

### **First Aid**

First Aid:EYES:WASH W/ PLENTY OF H\*2O FOR AT LEAST 15 MIN;LIFT LIDS  
OCCAS.GET MED ATTN IMMED.SKIN:REMOVE CONTAM CLTHG.WASH W/ SOAP OR  
MILD DETERGENT & H\*2O FOR AT LEAST 15 MIN.GET MED ATTN IF IRRIT  
DEVELOPS/PER SISTS.INGEST:INDUCE VOMIT IMMED.GIVE 2 GLASSES OF  
H\*2O.STICK FINGER DOWN THROAT.NEVER GIVE ANYTHING BY MOUTH TO UNCON  
PERS.CALL MD IMMEDIATELY.INHAL:REMOVE TO FRESH AIR.GET MED ATTN FOR  
BRTHG DFCLTY.

## Fire Fighting

Flash Point:SEE SUPP DATA  
Lower Limits:0.9%  
Upper Limits:6.2%  
Extinguishing Media:DRY CHEMICAL,ALCOHOL FOAM,CO\*2.WATER MAY BE  
INEFFECTIVE.USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.  
Fire Fighting Procedures:USE NIOSH APPROVED SCBA W/ FULL FACEPIECE IN  
PRESS DEMAND/OTHER POS PRESS MODE,FULL PROT CLTHG.WATER MAY BE  
INEFFECTIVE.COOL FIRE-EXPOSED CONTRS W/ WATER SPRAY.  
Unusual Fire/Explosion Hazard:SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT  
OR FLAME.ABOVE FLASH POINT,VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN  
FLAMMABLE LIMITS.HAZARDOUS DECOMP PRODUCTS:CO,CO\*2.

## Accidental Release

Spill Release Procedures:VENT AREA.REMOVE IGNIT SOURCES.PROT CLTHG &  
RESP PROT REQUIRED.CONTAIN & RECOVER LIQ WHEN POSS.HAZ  
WASTE:ATOMIZE IN RCRA APPRVD COMBUST CHAMBER OR ABSORB W/  
VERMICULITE,SAND,EARTH,SIMILAR MATL FOR DIS P IN RCRA APPRVD  
FACILITY.DO NOT FLUSH TO SEWER.  
Neutralizing Agent:N/K

## Handling

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL  
DAMAGE.OUTSIDE OR DETACHED STORAGE IS PREFERRED.INSIDE STORAGE  
SHOULD BE IN STANDARD FLAMMABLE LIQUIDS STORAGE ROOM/CABINET.  
Other Precautions:SEPARATE FROM OXIDIZING MATLS.NO SMOKING IN  
STORAGE/USE AREA.AVOID BREATHING VAPOR.AVOID CONTACT WITH  
EYES,SKIN,CLOTHING.KEEP CONTAINER CLOSED.USE WITH ADEQUATE  
VENTILATION.CONTACT LENSES SHOULD NOT B E WORN WHEN WORKING WITH  
THIS MATERIAL.

## Exposure Controls

Respiratory Protection:FOR CONDITIONS OF USE WHERE EXPOSURE TO VAPOR IS  
APPARENT,WEAR NIOSH APPROVED HALF-MASK CHEMICAL CARTRIDGE  
RESPIRATOR.FOR EMERGENCIES,A SELF-CONTAINED BREATHING APPARATUS MAY  
BE NECESSARY.  
Ventilation:LOCAL EXHAUST SYSTEM IS RECOMMENDED.USE EXPLOSION-PROOF  
EQUIPMENT.  
Protective Gloves:IMPERVIOUS  
Eye Protection:CHEM SFTY GOGGLES &/OR FULL FACESHIELD.  
Other Protective Equipment:IMPERVIOUS BOOTS,LAB COAT,APRON OR COVERALLS  
TO PREVENT SKIN CONTACT.MAINTAIN EYE WASH FOUNTAIN,QUICK-DRENCH  
FACILITIES.  
Work Hygienic Practices:CONTACT LENSES SHOULD NOT BE WORN.WASH  
THOROUGHLY AFTER HANDLING.  
Supplemental Safety and Health  
VAPOR PRESSURE:0.23 MMHG AT 25C,-4F.FLASH POINT:212F,100C.TCC FLASH  
POINT FOR SOME COMMERCIAL MATERIALS HAS BEEN REPORTED AS LOW AS  
172F,78C.LD50-LC50 MIX:RABBIT SKIN 4120 MG/KG.ROUTES OF  
ENTRY:INHALA TION,SKIN,INGESTION .

## Chemical Properties

Boiling Pt:B.P. Text:448F,231C  
Melt/Freeze Pt:M.P/F.P Text:-90F,-68C  
Decomp Temp:Decomp Text:N/K  
Vapor Pres:SEE SUPP  
Vapor Density:5.6,AIR=1  
Spec Gravity:0.967 (WATER=1)  
Evaporation Rate & Reference:Solubility in Water:SOLUBLE

Appearance and Odor:COLORLESS LIQUID WITH FAINT BUTYL ODOR.

## **Stability**

Stability Indicator/Materials to Avoid:YES

INCOMPATIBLE WITH STRONG OXIDIZERS AND ALKALIES.

Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE  
AND STORAGE.INCOMPATIBLE WITH HEAT AND FLAME.

Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE MAY  
FORM WHEN HEATED TO DECOMPOSITION.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

## **Disposal**

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH  
FEDERAL,STATE AND LOCAL REGULATIONS .

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