

MATERIAL SAFETY DATA SHEET

4-1177 ALCOHOL SUBSTITUTE

Revision Date: 5/1/13

Section I - Product Identification

Manufacturer's Name	Mark Andy, Inc	Emergency Phone Number (24 Hours)	CHEMTREC @ (800) 424-9300
Street Address	18081 Chesterfield Airport Road	MSDS access online at:	https://shop.markandy.com/msds
City, State, Zip Code	Chesterfield, MO 63005	Customer Service: (US)	800-225-4835
General Phone: 636-532-4433		(CAN)	800-387-3143
Product Use: OFFSET PRINTING.		Date Prepared:	February 2, 1995
		Prepared By:	Kenneth W. Pinter

Chemical Name, Trade Name, Synonyms: NONE.

HMIS RATING

2 - Health 1 - Flammability 0 - Reactivity B - Personal Protection

Section II - Hazardous Ingredients

Hazardous Components	CAS NO.	% WT.	Exposure Limits			
			OSHA PEL	ACGIH TLV	OTHER	
ETHYLENE GLYCOL MONOBUTYL- ETHER	111-76-2	15-20	25 PPM(SKIN).	25 PPM(SKIN).		
TETRAHYDROFURFURYL- CARBINOL	97-99-4	5-10	NOT ESTABLISHED.	NOT ESTABLISHED.		

Section III - Physical Data

Boiling POINT(F):	> 212	pH:	N.A.
Vapor Pressure(mm Hg):	UNKNOWN.	Freezing Point(F):	20
Vapor Density (AIR = 1):	> 1	VOC: 2.1 LBS/GAL	% VOC: 25%
Specific Gravity (H2O=1):	1.005	Color And Odor:	WATER WHITE / MILD
Odor Threshold:	N.D.	Physical State:	LIQUID
Evaporation Rate (Butyl Acetate = 1):	N.D.		
Solubility in Water:	COMPLETE.		

Section IV - Fire and Explosion Hazard Data

FLASH POINT (METHOD USED):	> 200(F) T.C.C.	Flammable Limits:	LEL: N.D. UEL: N.D.
Auto-ignition Temperature:	N.D.		
Extinguishing Media:	WATER FOG / ALCOHOL FOAM / CO2 / DRY CHEMICAL.		
Special Fire Fighting Procedures:	WEAR AN APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.		
Unusual Fire And Explosion Hazards:	NONE.		

Section V - Reactivity Data

Stability	Unstable : Conditions to Avoid: NONE.
	Stable : X

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Incompatibility (Materials to Avoid): STRONG OXIDIZING MATERIAL.

Hazardous Decomposition Products: CARBON MONOXIDE AND CARBON DIOXIDE.

Hazardous | May Occur: | Conditions to Avoid: NONE.
Polymerization | Will Not Occur: X |

Section VI - Health Hazard Data (Acute and Chronic)

Primary Route(s) of Entry: SKIN, INHALATION.

Oral Ingestion: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND
DIARRHEA.

Eye Contact: MAY CAUSE IRRITATION.

Skin Contact: MAY CAUSE IRRITATION. REAPEATED CONTACT MAY RESULT IN ALLERGIC
SKIN REACTION.

Inhalation: MAY CAUSE IRRITATION OF NOSE AND THROAT. MAY DAMAGE LIVER, KIDNEYS
AND LUNGS.

Effects of Overexposure: MAY CAUSE HEADACHE, NAUSEA, VOMITING AND DROWSINESS.

Medical Conditions Generally| DISEASES OF LIVER AND KIDNEY.
Aggravated by Exposure

Carcinogenicity: NOT KNOWN TO BE CARCINOGENIC.

Mutagenicity: NOT KNOWN TO BE MUTAGENIC.

Teratogenicity: NOT KNOWN TO BE TERATOGENIC.

Reproductive Toxicity: NOT KNOWN TO HAVE REPRODUCTIVE TOXICITY.

FIRST AID PROCEDURES

Ingestion: GIVE 2 GLASSES OF WATER AND INDUCE VOMITING. CALL A PHYSICIAN
IMMEDIATELY.

Eye: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

Skin: REMOVE CONTAMINATED CLOTHING AND WASH WITH SOAP AND WATER.

Inhalation: REMOVE TO FRESH AIR.

Section VII - Toxicology Information

Ingredient	Inhalation LC50	Oral LD50(RATS)	Dermal LD50(RABBITS)
ETHYLENE GLYCOL MONOBUTYL ETHER	700 PPM(7hrs).	0.5-3.0 g/KG.	0.4 g/KG.
TETRAHYDROFUREFURYL CARBINOL	N.D.	N.D.	N.D.

Section VIII - Spill or Leak Procedure

Steps to be taken in case material is released or spilled:

