

MATERIAL SAFETY DATA

MSDS NO. 5405-04
DATE: 06/19/91

PRODUCT IDENTIFICATION

PRODUCT NAME: **Compound MR 20/40**
SYNONYMS: None
CHEMICAL FAMILY: Mixture
MOLECULAR FORMULA: Mixture
MOLECULAR WGT.: Mixture

WARNING

**CAUTION! MAY BE HARMFUL IF INHALED
MAY CAUSE EYE AND SKIN IRRITATION**

OSHA REGULATED COMPONENTS

COMPONENT	CAS. NO.	%	TWA/CEILING	REFERENCE
2-Butoxyethanol	000111-76-2	1.9-2.1	25 ppm (skin)	OSHA/ACGIH
Ethanol	000064-17-5	0.9	1000 ppm	OSHA/ACGIH

NFPA HAZARD RATING

Fire 1
Health 1 0
Reactivity 0
Special

FIRE: Material that must be preheated before ignition can occur.
HEALTH: Materials which on exposure would cause irritation but only minor residual injury even if no treatment is given
REACTIVITY: Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE:

Direct contact with this material may cause mild eye and skin irritation.

Toxicology information on regulated components of this product is as follows:

Acute overexposure to 2-Butoxyethanol vapor may cause eye and respiratory irritation. The liquid is moderately irritating to the eyes. The oral LD50 in the rat is 0.47-3.0 g/kg, and the dermal LD50 in the rabbit is 400 mg/kg. Repeated overexposure to vapors may cause changes in blood parameters.

Inhalation overexposure to ethanol vapor may cause central nervous system depression. The inhalation LC50 for ethanol in rats exposed for 22 hours is 13,000 ppm. Ethanol can cause reversible eye irritation and minimal skin irritation. The oral LD50 for ethanol in rats is 11.5 g/kg and the dermal LD50 in rabbits is 20 ml/kg.

FIRST AID:

In case of skin contact, wash affected areas of skin with soap and water.
In case of eye contact, immediately irrigate with plenty of water for 15 minutes.

EXPOSURE CONTROL METHODS

Engineering controls are not usually necessary, if good hygiene practices are strictly followed. Before eating, drinking or smoking,

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wash face and hands thoroughly with soap and water. Wear the following as necessary to prevent skin contact: work pants, long sleeve work shirt, and impervious gloves. Provide eyewash fountain and safety shower in close proximity to points of potential exposure. Where concentrations are below the PEL, no respiratory protection is required. For spills or leaks, such protection may be necessary. Where exposures exceed PEL, use respirator approved by NIOSH for the material and level of exposure. See "GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION" (NIOSH).

FIRE AND EXPLOSION HAZARD INFORMATION	FLASH POINT: METHOD:	> 200 F (>93.33 C) Closed Cup
	FLAMMABLE LIMITS (% BY VOL):	Not Available
	AUTOIGNITION TEMP:	Not Available
	DECOMPOSITION TEMP:	Not Available
	FIRE FIGHTING:	Use water spray, carbon dioxide or dry chemical to extinguish fires. Use water to keep containers cool. Wear self-contained, positive pressure breathing apparatus.
REACTIVITY DATA	STABILITY:	Stable
	CONDITIONS TO AVOID:	None known
	POLYMERIZATION: CONDITIONS TO AVOID:	Will Not Occur None known
	INCOMPATIBLE MATERIALS:	Strong acids and alkalis cause hydrolysis; strong oxidizing agents. This product can corrode steel.
	HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide and/or oxides of sulfur.
PHYSICAL PROPERTIES	APPEARANCE AND ODOR:	Clear liquid; mild odor
	BOILING POINT:	212 F(100 C)
	MELTING POINT:	32 F(0 C)
	VAPOR PRESSURE:	Not Available
	SPECIFIC GRAVITY:	1.020-1.025
	VAPOR DENSITY:	Not Available
	% VOLATILE (BY VOL):	74-75
	OCTANOL/H ₂ O PARTITION COEF.:	Not Available
	pH:	6.5-7.5(1% Solution)
	SATURATION IN AIR (BY VOL):	Not Available
	EVAPORATION RATE:	Not Available
	SOLUBILITY IN WATER:	Completely soluble
SPILL OR LEAK PROCEDURES	STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Where exposure level is not known, wear NIOSH approved, positive pressure, self-contained respirator. Where exposure level is known, wear NIOSH approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Exposure Control Methods, wear impervious boots. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container.

Compound MR 20/40

Flush area with water.

WASTE DISPOSAL Disposal must be made in accordance with applicable governmental regulations.

SPECIAL PRECAUTIONS **HANDLING AND STORAGE/OTHER:** Low temperature storage can cause handling problems, as viscosity of material will increase. Store above 32 F (0 C).

D.O.T. SHIPPING INFORMATION

PROPER SHIPPING NAME:	NOT APPLICABLE/NOT REGULATED
HAZARD CLASS:	NOT APPLICABLE
UN/NA:	NOT APPLICABLE
D.O.T. HAZARDOUS SUBSTANCES:	(Reportable Quantity of Product) NOT APPLICABLE
D.O.T. LABEL REQUIRED:	NOT APPLICABLE

TSCA INFORMATION This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C.

ENVIRONMENTAL INFORMATION The following components are defined as toxic chemicals subject to reporting requirements of Section 313 of Title III and of 40 CFR 372 or subject to other EPA regulations.

COMPONENT	CAS. NO.	%	SARA TITLE III			RCRA	TSCA 12B
			TPQ (lbs.)	RQ (lbs.)	S313		
2-Butoxyethanol	000111-76-2	1.9-2.1	NONE	NONE	YES	NONE	NO

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA
Not Applicable under SARA TITLE III

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