

1-800-558-9595			HAZARD RATING 4-EXTREME Health Hazard 3-SEVERE Health Hazard 2-MODERATE Flammability 1-SLIGHT Reactivity				
MATERIAL SAFETY DATA SHEE READ CAREFULLY BEFORE USING CHEMICAL OSHA requires that this form be kept on file.			SECTION I Chemical None		N	AME	
Product No. KM 772 M Product Name UNIVERSAL INDICATOR			Synonyms		Section II		
SOLUTION					Section II		
SECTION II Principal Hazardous Con	HAZARDO	US ING	REDIEN %	ITS OF P.E.I	MIXT	URES TLV Units	
Methyl Red Bromothymol Blue Phenolphthalein Ethyl Alcohol, denatured Water (nonhazardous)	CAS# 493- CAS# 76-5 CAS# 77-0 I CAS# 64-1 CAS# 7732	9-5 9-8 7-5	<0.01% <0.01% <0.01% 47+% Bal.	None Esta None Esta None Esta 1000 p None Esta	blished blished opm	None Established None Established None Established 1000 ppm None Established	
* chemical subject to the reportin	g requirements of SARA Titl PHYSICAL					1	
Melting Point (°F)	N/A			wity (H ₂ O=1)	<1		
Boiling Point (°F) N/A		t) T	Percent Volatile by Volume (%)		+99%		
Vapor Pressure (mm Hg) N/A			Evaporation Rate (= 1)		N/A		
Vapor Density (Air=1)	N/A						
Solubility in Water Complete							
Appearance & Odor Orange colored soluti							
SECTION IV	FIRE AND	EXPLO	SION H	AZARD	DATA		
			Flammable Limits in Air % by Volume		Lower	Upper	
						19.0	

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC 800-424-9300

Extinguisher Carbon dioxide, dry chemical, alcohol-type foam, water spray or universal-type foam. Media

Special Firefighting Procedures

Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers. Avoid using a solid stream of water.

Unusual Fire and Explosion Hazards

None known.

D.O.T. Flammable liquids, n.o.s. (contains Ethanol and Methyl isobutyl ketone), 3, UN1993, PGII

Approved by the U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V Threshold Limit Value

1000 ppm for Ethyl Alcohol, denatured.

Effects of Overexposure

Irritation to skin and eyes. Irritation if inhaled. **Ingestion:** nausea, vomiting, diarrhea, drowsiness, dizziness, staggering gait, weakness. **Inhalation:** Weakness, headache, narcosis, dizziness, vomiting, nausea, drowsiness, loss of appetite, unconsciousness. Methyl red has been found to be a possible tumorigenic agent but is less than 0.1% in content.

HEALTH HAZARD DATA

Emergency and First Aid Procedures

Denatured Ethyl Alcohol cannot be made non-poisonous! Call a physician. **Eye & Skin:** Immediately flush with water at least 15 minutes. **Inhalation:** Remove to fresh air. **Ingestion:** Drink water and induce vomiting.

SECTION VI Stability	REACTIVITY DATA Conditions to Avoid					
Stable 🔄 Unstable 🖵	Heat, ignition sources, fire.					
Incompatibility (Materials to Avoid)	Oxidizing agents.					
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, nitrogen oxide.					
Hazardous Polymerization	Conditions to Avoid					
May Occur 🖵 Will Not Occur 🗣	N/A					
SECTION VII	SPILL OR LEAK PROCEDURES					

Absorb small spill with noncombustible material and containerize for proper disposal.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Incineration in accordance with all federal, state and local regulations.

SECTION Respiration P	rotection	SPECIAL PROTECTION INFORMATION								
(Specify Type)	NIOSH-approved respirator in areas of high concentrations.								
Ventilation		Local Exhaust X		Special						
		Mechanical (General)			Other					
Protective Glo	oves	Rubber glove	es	Eye Protection		Safety goggles				
Other Protect Equipment	ive	Wear protective clothing to prevent contact. Eye bath and safety shower available.								
SECTION	X	SPECIAL P	RECAU	TIONS						
Precautions to Keep container tightly cl		Handling & Storin								
Avoid breathing	vapor and a	ny contact. Keep a	way from hea	t, sparks and	l flame.	Do not take internally.				
Other Precautio	ons	CONSTRUCTION OF STATE			- California - California					
Read label on container	before using. Do no	t wear contact lenses when	working with chemic	als.						
Solids may appe dissolve solids	ear if solution before using.	is exposed to temp	eratures below	25°C. Place	bottle ir	n water bath at 50°C to				
Approved by	Steven C. Q	Landt Effe	ctive Date	4/23/200	12	For laboratory use only. Not for drug, food or household use. Keep out of reach of childrer				

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