

MATERIAL SAFETY DATA SHEET

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EMERGENCY ASSISTANCE: 803*772-2500		MSDS NUMBER 80.0-Ca	
ACUTE	FIRE	REACTIVITY	HAZARD
HEALTH 2	1	0	RATING
		LEAST -0	SLIGHT-1
		HIGH-3	EXTREME-4
		MODERATE-2	

I. PRODUCT IDENTIFICATION

Liquid content of capacitors, A. C. Motor Start all series, and all voltages.

PRODUCT			
CHEMICAL			
NAME	N/A	SYNONYMS	N/A
FORMULA			
	Mixture	CHEMICAL	
		FAMILY	N/A
		MOLECULAR	
		WEIGHT	N/A
TRADE NAME	N/A		

II. HAZARDOUS INGREDIENTS

MATERIAL (CAS NO.)	VOL (%)	PEL	TLV
Identity of some chemicals being withheld as trade secret (29CFR1910.1200 (i) (1))			
1. Ethylene Glycol 107-21-1	80.0	50 PPM-Ceiling	50 PPM-Ceiling
2. Distilled water 7732-18-5	5.0	Not estimated	

III. PHYSICAL DATA

BOILING POINT .760mm.Hg >130°C		FREEZING POINT	
SPECIFIC GRAVITY (H2O=1) 1.16		VAPOR PRESSURE AT 20°C	N/A
VAPOR DENSITY (air=1) 2.0		SOLUBILITY	
PERCENT VOLATILES		WATER, % by wt.	100
BY VOLUME 100		EVAPORATION RATE	
APPEARANCE AND ODOR		(Butyl Acetate =1)	.17
Colorless liquid, mild odor			

IV. HEALTH INFORMATION

The health effects listed below are consistent with requirements under the OSHA Hazard Communication Standard (29CFR1910.1200).

EYE CONTACT:

Moderately to severely irritating to the eyes. Overexposure to vapors can also cause severe eye irritation.

SKIN CONTACT:

Can produce irritation to the skin and is slightly toxic on prolonged or repeated contact. Can cause skin absorption in toxic amounts.

INHALATION:

Vapors are mildly to markedly irritating to the lungs and respiratory tract depending on the exposure level.

INGESTION:

May be harmful or fatal if swallowed. May produce Central Nervous System (CNS) depression and kidney damage which may be fatal.

SIGNS AND SYMPTOMS:

Irritations as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness and nausea. Kidney damage may be evidenced by change in urine output, appearance or edema (swelling from fluid retention). Liver damage may be evidenced by lost of appetite, jaundice (yellowish skin color) and sometimes pain in the upper abdomen on right side.

AGGRAVATED MEDICAL CONDITIONS:

Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to liquid content. Impaired kidney and liver functions from pre-existing disorders may be aggravated by exposure to liquid content.

PRIMARY ROUTE(S) OF ENTRY:

1. Skin absorption
2. Skin contact

V. EMERGENCY AND FIRST AID PROCEDURES**EYE CONTACT:**

Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

SKIN CONTACT:

Wash skin thoroughly with soap and water. Remove contaminated clothing. Launder clothing before re-use. If irritation occurs, get medical attention.

INHALATION:

If affected remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

INGESTION:

Do not give liquids if victim is unconscious or drowsy. Give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) Syrup of Ipecac. If Ipecac is unavailable, give two glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

VI. FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD
250°F + TCC

FLAMMABLE LIMITS

LOWER: **UPPER:**

N/A

EXTINGUISHING MEDIA

Use water fog, "Alcohol Foam", dry chemical, Carbon Dioxide.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Do not enter confined spaces without appropriate gear, including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

VII. REACTIVITY

STABILITY:
Stable

HAZARDOUS POLYMERIZATION:
Will not occur

CONDITIONS AND MATERIALS TO AVOID:
Strong acids and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:
May produce carbon monoxide and other unidentified organic compounds may be formed during combustion.

RESPIRATORY PROTECTION:
If exposure may or does exceed occupational exposure limits (Sect. IV) use a NIOSH-approved respirator to prevent overexposure. In accordance with 29CFR1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

PROTECTIVE CLOTHING:
Wear chemical goggles if there is a likelihood of contact with eyes. Wear chemical-resistant gloves and other clothing as required to minimize contact. Use Nitrile, Neoprene or Natural Rubber Gloves.

ADDITIONAL PROTECTIVE MEASURES:
Use ventilation as required to control vapor concentration. Eyewash fountains and safety showers should be available for emergency use.

CARCINOGENICITY:
This product contains no ingredients presently listed as Carcinogenic by IARC, NTP, OSHA or ACGIH.

IX. ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:
Electrolyte may burn although not readily ignitable. Use cautious judgement when cleaning up large spills. Wear respirator and other protective clothing as required. Small Spills: Take up with a absorbent material and dispose of properly.

WASTE DISPOSAL:
Place in approved disposal facility in compliance with all applicable regulations.

ENVIRONMENTAL HAZARDS:
Keep out of surface waters, sewers and waterways entering or leading to surface waterways. May be incinerated in a furnace where permitted under appropriate federal, state, or local regulations.

X. SARA TITLE III INFORMATION

NO.	COMPONENT	CAS NUMBER
P	ELECTROLYTE	MIXTURE
1	ETHYLENE GLYCOL	107-21-1
2	DISTILLED WATER	7732-18-5

SECTION II		SARA TITLE III INFORMATION			
NO.	EHS RQ(LBS)	EHS TPQ(LBS)	SEC 313	313 CATE.	311/312 CATEGORIES
(*1)		(*2)	(*3)	(*4)	(*5)
P			YES		H-1,H-2
1			YES		H-1,H-2
2					

-----FOOTNOTES-----

- *1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC. 302
- *2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- *3 = TOXIC CHEMICAL, SEC 313
- *4 = CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.66 C), MUST BE USED ON TOXIC RELEASE INVENTORY FORM
- *5 = HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING
 - HEALTH H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD
 - H-2 = DELAYED (CHRONIC) HEALTH HAZARD
 - PHYSICAL P-3 = FIRE HAZARD
 - P-4 = SUDDEN RELEASE OF PRESSURE HAZARD
 - P-5 = REACTIVE HAZARD

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