

METROCHEM INDUSTRIES, INC.  
7941 QUEENAIR DRIVE  
GAITHERSBURG, MD. 20879  
301-840-5770

HMS SYMBOL  
HEALTH: 3  
FLAMMABILITY: 0  
REACTIVITY:  
NFPA  
FIRE:  
REACTIVITY:  
TOXICITY:

Severe 4 Extreme  
Serious 3 High  
Moderate 2 Moderate  
Slight 1 Slight  
Minimal 0 Insignificant

Material Safety Data Sheet

Section I  
Metrochem Number: 4-116  
Identity: GRAFFOUTI  
Date Prepared: 2-04-03

Section II - Hazardous Ingredients/Identity Information

Hazardous Components:

	CAS#	OSHA PEL	ACGIH TLV
ETHYLENE GLYCOL			
MONOBUTYL ETHER	111-76-2	25ppm	25ppm
MONOETHANOLAMINE	141-43-5	3ppm	3ppm
SODIUM HYDROXIDE	1310-73-2	2mg/m3	2mg/m3
DISODIUM TRIOXIALICATE	6834-92-0	15mg/m3	10mg/m3

Section III - Physical/Chemical Characteristics

Boiling Point: 212 F  
Vapor Pressure: N/D  
Vapor Density: N/D  
Solubility in Water: 100%  
Appearance and Odor: PURPLE WITH PINE ODOR  
Specific Gravity: 1.07  
Volatile by Volume in Can: N/A  
Flash Point of Concentrate: NONE TO BOILING

Section IV - Fire & Explosion Hazard Data

Flammability as per CPSC Flame Extension Test: N/A  
FLAMMABLE LIMITS: LEL: N/A UEL: N/A  
Extinguishing Modes: WATER, FOAM, DRY CHEMICAL  
NFPA 30B Code: N/A  
Special Fire Fighting Procedures: SELF CONTAINED BREATHING APPARATUS  
Unusual Fire & Explosion Hazards: NONE

Section V - Reactivity Data

Stability: STABLE  
Conditions to Avoid: DO NOT MIX WITH STRONG, CONCENTRATED ACIDS SUCH AS HYDROCHLORIC AND SULFURIC ACID  
Incompatibility: STRONG OXIDIZERS. CORROSIVE TO ALUMINUM, COPPER AND GALVANIZED IRON.  
Hazardous Decomposition or Byproducts: NONE  
Hazardous Polymerization: WILL NOT OCCUR  
Conditions to Avoid: NONE

VI - Health Hazard Data

Routes of Entry: Ingestion: YES Skin: YES  
Effects of Overexposure:  
Ingestion: MAY CAUSE VOMITING, PAIN OF THROAT, MOUTH OR STOMACH  
Eyes: MINIMALLY IRRITATING  
Carcinogenicity: NO NTP: NO IARC Monographs: NO  
OSHA Regulated: NO  
Emergency & First Aid Procedures:  
Eyes: WASH EYES WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL AID, FOR SKIN; FLUSH WITH WATER  
Inhalation: REMOVE TO FRESH AIR  
Ingestion: DO NOT INDUCE VOMITING. DRINK WATER, MILK OF MAGNESIA. GET MEDICAL ATTENTION.

