

MATERIAL SAFETY DATA SHEET

WHMIS STATUS: Controlled D2B

Date Prepared: 09-01-01 By Charles D. Werner 206-762-7000

SECTION 1 - PRODUCT IDENTIFICATION			
Manufacturer Name: Fortech Products by Formula Corporation		Emergency Phone No: 1-800-228-5635 ext. 059	
Address: 7901 2nd Ave S., Seattle, WA 98108			
Trade Name: REACT		Product Type/Use: Acid based toilet bowl cleaner	
Chemical Family: FLRREAGM		Formula: Mixture	
SECTION 2 - HAZARDOUS INGREDIENTS			
Chemical Name/Common Name:	CAS NO.	PERCENT (optional)	TLV/PEL
Dihydroxyethyl Tallow Glycinate	70750-46-8	1 - 5	None
Hydrochloric (Muriatic) Acid LC ₅₀ 700 ppm INH (Rat)	7647-01-0	9 - 10	5 ppm PEL
No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.			
SECTION 3 - PHYSICAL DATA			
Boiling Point: (F) approx. 212 F (100 C) Freezing point 32 F (0 C)		Specific Gravity: (H ₂ O = 1.0) 1.1	
pH: < 1.0		Vapor Pressure: (mm/Hg) 18	
Solubility In Water: Complete		Coefficient of water/oil: Not available	
Evaporation Rate (Vs ether) slower than ether		Vapor Density: Heavier than air	
Appearance and Odor: GREEN, viscous liquid, MINT FRAGRANCE. Odor threshold: Not Available			
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.): NONE Flammable Limits Upper N/A Lower N/A			
Extinguishing Media: water Fog.			
Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus and full protective clothing. Use Water spray to cool nearby containers and structures exposed to fire.			
Unusual Fire and Explosion Hazards: Extinguish all nearby sources of ignition since flammable hydrogen gas may be liberated from contact with some metals.			
SECTION 5 - REACTIVE DATA			
Stability: Stable Incompatibility: Strong oxidizers or reducing agents, alkalis, combustibles and soft metals. Formaldehyde and metal oxides.			
Hazardous Decomposition Products: May liberate hydrogen chloride or phosphorous oxides.			
SECTION 6 - HEALTH HAZARDS			
Threshold Limit Value - Product (See Section 2 for Ingredient TLV) None Established			
Primary Routes of Exposure: Eye - yes Skin-Not Established Oral-yes Inhalation-yes Other			
Signs and Symptoms of Over-exposure (Acute): EYES: Vapors and mists are extremely corrosive to the eyes. INHALATION: Undiluted vapors and mists are extremely corrosive to the nose, throat, and mucous membranes. Irritation, coughing, chest pain, and breathing difficulty may occur with brief exposure while prolonged exposure will result in more severe irritation. SKIN: Redness, drying of skin or other signs of irritation or contact dermatitis. May result in primary irritant dermatitis. May result in areas of destruction of skin tissue.			
Signs and Symptoms of Over-exposure (Chronic): not known			
Medical Conditions Aggravated by Over-exposure: Persons with pre-existing skin disorders, eye problems, impaired respiratory function may more susceptible.			
arcinogen or Suspect Carcinogen Ingredients: NTP - NO IARC - NO OSHA - NO NONE			
SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES			
Eyes: Flush with immediately with lots of running water for at least 15 minutes holding eyelids open. GET MEDICAL ATTENTION IMMEDIATELY.			
Skin: Flush with water for at least 15 minutes. Remove contaminated clothing & shoes. Wash before reuse.			
Ingestion: If conscious, drink 1 to 8 glasses of water or milk to dilute. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY. Treat symptomatically. Don not give anything by mouth to an unconscious or convulsing person.			
Inhalation: Get to fresh air. Give artificial respiration if not breathing.			
SECTION 8 - SPECIAL PROTECTION INFORMATION			
Respiratory Protection: not normally required		Ventilation Requirements: Adequate ventilation required. Mechanical required if necessary to maintain exposure below PEL.	
Protective Gloves: Wearing resistant gloves is required.		Eye Protection: Not normally required. Recommended if used overhead or misting or spraying.	
Other Protective Clothing: Where gross eye and skin contact may occur use and wear appropriate protective clothing, including resistant clothing, rubber boots with pants on the outside, and rubber gloves.			
SECTION 9 - SPILL OR LEAK PROCEDURES			
Steps to be Taken if Released or Spilled: For small spills, dilute with water and rinse down sanitary sewer. For large spills, contain by diking with absorbent material and carefully neutralize with lime or sodium carbonate. When neutralized, rinse with water into sanitary sewer system where available.			
Waste Disposal Methods: Note that the contaminates of the product must be consider when disposing. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures and comply with them.			
SECTION 10 - STORAGE AND HANDLING INFORMATION			
Precautions to be Taken in Handling and Storage: Store in a cool dry, well ventilated place away from incompatible materials. Keep container tightly closed when not in use.			
Other Precautions: Empty containers will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. When mixing with water, always add this product slowly to water and stir. See the container or the bill of lading for proper DOT/UN hazard class and PSN.			