

## 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: RED-X	Product Type/Use: Cleaner Degreaser
Product Code: FLABJCRX	Formula: Mixture

**SECTION 2 - HAZARDOUS INGREDIENTS**

Chemical Name/Common Name:	CAS NO.	PERCENT (optional)	TLV/PEL
* 2 Butoxyethanol LD <sub>50</sub> (oral-rat) 470 mg/kg, LD <sub>50</sub> (skin-rab) 220 mg/kg, LC <sub>50</sub> (rat) 700ppm	111-76-2	5-10	25 skin (OSHA)
Monoethanolamine LD <sub>50</sub> (oral-rat) 1720 mg/kg	141-43-5	< 5	3mg/M <sup>3</sup> INH(OSHA)
Sodium Hydroxide LD <sub>50</sub> (oral-rat) 500 mg/kg,	1310-73-2	< 2	2 mg/m <sup>3</sup> INH(OSHA)
Anionic / Nonionic Surfactant Blend LD <sub>50</sub> (oral-rat) > 5000 mg/kg		< 5	NE

\* reportable under Section 313 of Title III and of 40 CFR 372

**SECTION 3 - PHYSICAL DATA**

Boiling Point: (F) 212 (100 C) Freezing Point 32 F (0 C)	Specific Gravity: (H <sub>2</sub> O = 1.0) 1.0	pH: 13.0-13.5
Vapor Pressure: (mm/Hg) Not Determined	Vapor Density: Heavier than air	
Solubility In Water: Complete	Coefficient of water/oil: Not available	
Evaporation Rate (Vs ether) Slower		
Appearance and Odor: Liquid, non-viscous, RED color and pleasant fragrance	Odor Threshold: Not available	

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point (T.C.C.): NONE
Extinguishing Media: nonflammable and non-explosive. No special procedures required.
Special Fire Fighting Procedures: none required.
Unusual Fire and Explosion Hazards: NOTHING SPECIAL.

**SECTION 5 - REACTIVE DATA**

Stability: Stable	Incompatibility: Keep away from acids and strong oxidizers and soft metals like aluminum.
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and unknown organic compounds.	

**SECTION 6 - HEALTH HAZARDS**

Threshold Limit Value - Product (See Section 2 for Ingredient TLV/PEL): None Established
Primary Routes of Exposure: Eye - yes Skin- yes Oral- yes Inhalation -yes Other
<b>Signs and Symptoms of Over-exposure (Acute):</b> EYES: Liquid and mists are irritating to the eye. INHALATION: Undiluted vapors may irritate the respiratory tract. Inhalation of higher concentrations may cause headaches. SKIN: Brief contact with concentrate will irritate the skin, but this irritation is reversible. Prolonged exposure may burn the skin. INGESTION: Liquid and vapors are corrosive to the mouth and throat. Swallowing the liquid burns the tissues, and may cause abdominal pain, nausea, or vomiting.
<b>Chronic Health Hazards:</b> In animals, excessive overexposure to this glycol ether has shown effects on the liver, kidneys and red blood cells.
<b>Medical Conditions Aggravated by Over-exposure:</b> Persons with pre-existing skin disorders, impaired respiratory function maybe more susceptible to effects.
<b>Carcinogen or Suspect Carcinogen Ingredients:</b> NTP - NO IARC - NO OSHA - NO

**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.
Skin: Wash skin with soap and water. Remove contaminated clothing & shoes. Wash before reuse.
Ingestion: DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep victims head below his hips to prevent his breathing vomitus into his lungs. Drink 1 to 8 glasses of water or milk to dilute. Call physician or poison control center immediately, Treat symptomatically. Do not give anything by mouth to an unconscious or convulsing person.
Inhalation: Get to fresh air.

**SECTION 8 - SPECIAL PROTECTION INFORMATION**

Respiratory Protection: Not normally required when using this product as directed.
Ventilation Requirements: Adequate ventilation required to keep exposure under TLV/PEL.
Protective Gloves: Required. the product is highly alkaline
Eye Protection: Not normally required. Goggles are recommended if splashing might occur -- wearing contact lenses is not recommended while using this product. Face shield are required if used overhead or misting or spraying.
Other: When using this product as a floor stripper or cleaner waterproof footwear must be worn. Where gross eye and skin contact may occur -- use and wear appropriate protective clothing including alkali-resistant clothing, rubber boots with pants on the outside, and rubber gloves. .

**SECTION 9 - SPILL OR LEAK PROCEDURES**

<b>Steps to be Taken if Released or Spilled:</b> For small spills, mop or wipe up and contain. For large spills, contain by diking with absorbent material and contain. Rinse with water into sanitary sewer system where available. Keep the product out of storm drains, surface waters and soil.
<b>Waste Disposal Methods:</b> The contaminates of the product must be considered 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**

<b>Precautions to be Taken in Handling and Storage:</b> Nothing special is required. Do not mix chemicals. Keep container tightly closed when not in use.
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