

SECTION 1 - MANUFACTURER INFORMATION

MANUF/DIST : Chem-Power Mfg Div/ Foster & Company, Inc.  
15 Wing Drive EMERGENCY PHONE.....: 973-267-4100  
Cedar Knolls PREPARATION/REVISION DATE: 02/14/02  
NJ 07927  
PREPARER/CONTACT: Gary Adams, Chemist  
LOCATION : Whs 1

TRADE NAME/SYNONYMS...: FROSTY  
CHEMICAL NAME/SYNONYMS: Windshield De-icer  
CHEMICAL FAMILY.....: Alcohol Base Cleaning Solution  
FORMULA.....: Complex mixture  
PRODUCT CODE.....: 17-04

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

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\* \* \* \* \*  
\* HEALTH..... 2 \*  
\* FLAMMABILITY.. 3 \*  
\* REACTIVITY.... 0 \*  
\* PROTECTION.... B \*  
\* \* \* \* \*

SECTION 2 - HAZARDOUS INGREDIENTS

THIS PRODUCT CONTAINS HAZARDOUS INGREDIENTS : YES

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
**Methanol (Carbinol, wood alcohol)	67-56-1	>80	200 ppm	200 ppm
**2-Butoxyethanol	11-76-2	<1	N/I	25PPm
Water	8832-18-5	10	N/I	N/I
Sodium dioctyl sulfosuccinate	577-11-7	<0.1	N/I	N/I

\*\*this ingredient is reportable under EPA SARA Title 111-please check applicable states for additional regulations.

THIS PRODUCT CONTAINS CARCINOGENS (NTP, IARC, or OSHA):NO

CHEMICAL/COMMON NAME	CAS-NUMBER	%	NTP	IARC	OSHA
N/A	N/A	N/A	N/A	N/A	N/A

SECTION 3 - HEALTH HAZARD DATA

HEALTH EFFECTS (Acute And Chronic)-

ACUTE:Severe eye and moderate skin irritant. Can cause transient probably not permanent corneal injury. SKIN: Defats and can be poisonous by absorption; dermatitis. INGESTION: POISON if swallowed. Contains Methanol which can cause blindness and death if ingested. No antidote available.

CHRONIC: No incidence of chronic injury available. Complications of acute injuries assumed likely from continued overexposure. 2-Butoxyethanol has been reported to cause changes in blood cell count at high levels of exposure; however, not at exposures expected from use of this product. Recommend TLV of 200 ppm be utilized as safe guideline to prevent injury. INHALATION: Causes narcotic effects such as dizziness, headache, nausea and unconsciousness.

PRIMARY ROUTES OF ENTRY-  
Inhalation, skin, eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-  
None expected from normal exposure (see Health Effects above).

EMERGENCY FIRST AID PROCEDURES-  
EYES: Object is to flush material out immediately, then seek medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call physician immediately. SKIN: Wash with plenty of water for 15 minutes. Remove contaminated clothing and shoes. Wash clothes before reuse. Call physician if irritation persists. INHALATION: Move to fresh air, call physician if symptoms of headache, nausea etc. persist.  
INGESTION: Never give anything by mouth to an unconscious person. If conscious INDUCE VOMITING by giving a tablespoon of salt in a glass of warm water and repeat until vomit fluid is clear. Give two teaspoons of Baking Soda in a glass of water. Have patient lie down and keep warm. Cover eyes to exclude light. Call physician of poison control center immediately.

#### SECTION 4 - CHEMICAL DATA

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BOILING POINT (F).....: 148	SPECIFIC GRAVITY (WATER=1).....: 0.79
VAPOR PRESSURE (mmHg): 90	PERCENT VOLATILE BY VOLUME (%),.....: 99
VAPOR DENSITY (AIR=1): 1.1	EVAPORATION RATE (Butyl Acetate =1): 2

SOLUBILITY IN WATER-  
100%

APPEARANCE AND ODOR INFORMATION-  
Clear blue liquid, faint alcoholic odor.

#### SECTION 5 - PHYSICAL HAZARD DATA

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FLASH POINT (Method Used): 52 F                      FLAMMABLE LIMITS : Lel=7.3    UEL=36.5

EXTINGUISHING MEDIA-  
This is a FLAMMABLE LIQUID which is water soluble. Dry chemical, water fog alcohol foam, Carbon Dioxide. Water spray may be detrimental and only spread the fire. Mixture is combustible to 20 % Methanol solution (approx.25% Frosty)

SPECIAL FIRE FIGHTING PROCEDURES-  
Keep containers cool to prevent explosion

UNUSUAL FIRE AND EXPLOSION HAZARDS-  
Mixtures of Methanol and water will burn to 15-20 % solutions. Do not use water to fight fire unless rapid dilution will occur or fire may be spread. Burns with flame which is invisible.

INCOMPATIBILITY (Materials To Avoid)-  
Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS-  
Carbon Monoxide, Carbon Dioxide.

WILL HAZARDOUS POLYMERIZATION OCCUR-  
Not known to occur.

CONDITIONS TO AVOID FOR POLYMERIZATION-  
None known.

IS THE PRODUCT STABLE-  
YES

CONDITIONS TO AVOID FOR STABILITY-  
None known.

SECTION 6 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-  
Immediately remove all sources of ignition. Dike and contain spill and remove with suitable absorbent. Flush residue with plenty of water but prevent residue from entering watercourses. Dispose of waste from spill according to prevailing governmental regulations. Evaporation is method of choice for minor amounts but caution against fire and explosion must be maintained.

WASTE DISPOSAL METHODS-  
Comply with local, state and federal regulations. If approved, incineration and bio-oxidation are the best methods.

SECTION 7 - EXPOSURE CONTROL INFORMATION

VENTILATION-  
LOCAL EXHAUST: good general vent.                   MECHANICAL (General): Explosion proof.  
SPECIAL.....: keep below TLV                   OTHER.....: N/A

RESPIRATORY PROTECTION-  
NIOSH approved is necessary.

PROTECTIVE GLOVES-  
Neoprene, or other solvent impervious.

OTHER PROTECTIVE EQUIPMENT-

Splashproof goggles, rubber apron. rubber boots or overshoes.

OTHER ENGINEERING CONTROLS-

N/I

WORK PRACTICES-

Do not allow any smoking when using this product. Be especially cognizant that this is a poisonous material and prevent any chance of food contact or handling by children.

HYGIENIC PRACTICES-

Rinse hands with water BEFORE using lavatory facilities when hands have contacted this product.

SECTION 8 - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE-

Store in explosion proof area (away from heat and ignition sources).  
Do not store in mild steel container. Keep containers tightly closed.

MAINTENANCE PRECAUTIONS-

N/I

OTHER PRECAUTIONS-

KEEP OUT OF REACH OF CHILDREN! POISON!

ADDITIONAL COMMENTS-

SHIPPING NAME: **Compound, Cleaning, Liquid.** (Methanol), Hazard Class 3, subcl 6.1  
UN-1230, Packing Group 111, FLAMMABLE LIQUID AND POISON labels required.  
FOR TRANSPORTATION EMERGENCY ONLY, CALL INFOTRAC 1-800-535-5053 24 hr/7 days.