

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER Enviro Flush		PRODUCT IDENTIFICATION NUMBER (PIN)	
PRODUCT USE Flush A/C systems			
MANUFACTURER'S NAME Lloyds Laboratories		SUPPLIER'S NAME Alltemp Products Limited	
STREET ADDRESS 613 Neal Drive		STREET ADDRESS 827 Brock Road S.	
CITY Peterborough	PROVINCE Ontario, Canada	CITY Pickering	PROVINCE Ontario, Canada
POSTAL CODE K9J 6X7	EMERGENCY TELEPHONE	POSTAL CODE L1W 3J2	EMERGENCY TELEPHONE NO.

SECTION 2 — HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC ₅₀ OF INGREDIENT (SPECIFY SPECIES)
Tetrachloroethylene	60-90%	127-18-4	2629 mg/kg (rat, oral)	34200 mg/m ³ /8hrs (Rat, Inhalation)
Dichloromethane	10-40%	75-09-2	1800 mg/kg (rat, oral)	52 GM/m ³ (Rat, Inhalation)

SECTION 3 — PHYSICAL DATA

PHYSICAL STATE Liquid	ODOUR AND APPEARANCE Ethereal odor, clear colorless aerosol			ODOUR THRESHOLD (ppm) 40 ppm
VAPOUR PRESSURE (mm Hg) 14.4@20°C	VAPOUR DENSITY (AIR=1) ~ 5.83	EVAPORATION RATE ~ 2.1	BOILING POINT (°C) 121°C Initial Component	FREEZING POINT (°C) -22.3°C
pH N/A	SPECIFIC GRAVITY 1.635 @ 20°C	COEFF. WATER/OIL DIST. No Data		

SECTION 4 — FIRE AND EXPLOSION DATA

FLAMMABILITY NO IF YES, UNDER WHICH CONDITIONS?			
MEANS OF EXTINCTION Use water only in the form of fog			
FLASHPOINT (°C) AND METHOD Not applicable	UPPER FLAMMABLE LIMIT (% BY VOLUME) not available	LOWER FLAMMABLE LIMIT (% BY VOLUME) not available	
AUTOIGNITION TEMPERATURE (°C)	HAZARDOUS COMBUSTION PRODUCTS		
EXPLOSION DATA Yes	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE N/A	

SECTION 5 — REACTIVITY DATA

CHEMICAL STABILITY YES IF NO, UNDER WHICH CONDITIONS?			
INCOMPATIBILITY WITH OTHER SUBSTANCES YES IF SO, WHICH ONES? Avoid excessive amounts of heat and all possible ignition sources. Avoid strong oxidizing agents, and strong alkalis			
REACTIVITY, AND UNDER WHAT CONDITIONS			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, hydrogen chloride, and traces of phosgene			

PRODUCT IDENTIFIER Enviro Flush				
SECTION 6 — TOXICOLOGICAL PROPERTIES				
ROUTE OF ENTRY				
SKIN CONTACT	SKIN ABSORPTION	EYE CONTACT	INHALATION	INGESTION
EFFECTS OF ACUTE EXPOSURE TO PRODUCT Skin – may cause defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis. Inhalation – Vapors are irritation to eyes, nose, throat and respiratory tract. May cause central nervous system depression. Eye Contact – may cause irritation. Conjunctivitis and possible corneal damage. Ingestion- May cause irritation and burning of the mouth and throat, abdominal pain and central nervous system.				
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT Liver and kidney damage may result				
EXPOSURE LIMITS ACGIH TLV/TWA:25ppm/8hrs	IRRITANCY OF PRODUCT None known	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY IRAC 2B	
TERATOGENICITY N/A	REPRODUCTIVE TOXICITY No adverse affects are anticipated	MUTAGENICITY N/A	SYNERGISTIC PRODUCTS None known	
SECTION 7 — PREVENTIVE MEASURES				
PERSONAL PROTECTIVE EQUIPMENT				
GLOVES (SPECIFY) Chemical resistant / solvent resistant. Waterproof such as nitrile	RESPIRATOR (SPECIFY) If the TLV (25ppm) of the product or any component is exceeded a NOISH/MSHA approved air supplied respirator is advised in the absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.	EYE (SPECIFY) Use chemically resistant goggles when there is a potential for eye contact		
FOOTWEAR (SPECIFY) Impervious Boots	CLOTHING (SPECIFY) Impervious apron with a waterproof coating such as rubber.	OTHER (SPECIFY) Safety shower and eye bath located Close to chemical exposed area		
ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS.) Local exhaust desirable				
LEAK AND SPILL PROCEDURE Absorb spills with clay or diatomaceous earth, shovel into a container. Prevent materials from entering sewers or water courses.				
WASTE DISPOSAL Dispose of in accordance to federal, provincial, and local regulations.				
HANDLING PROCEDURES AND EQUIPMENT Avoid open flame or spark sources. Provide adequate ventilation. Do not puncture or incinerate aerosol containers. Avoid contamination of food. Do not use in poorly ventilated or confined areas without proper respiratory protection				
STORAGE REQUIREMENTS Store aerosol containers in a cool, well-ventilated area. Do not expose containers to temperatures above 49°C (120°F). Keep away from heat, sparks and flame.				
SPECIAL SHIPPING INFORMATION				
Chemical Name	Class	Subclass	Small Means of Containment	Consumer Commodities
Tetrachloroethylene (UN1897)	6.1	N/A	CAN/CGSB-43.150-97 CAN/CGSB-43.146.94	5
Dichloromethane (UN1593)	6.1	N/A	CAN/CGSB-43.150-97 CAN/CGSB-43.146.94	5
SECTION 8 — FIRST AID MEASURES				
SPECIFIC MEASURES				
Eyes – Flush with running water for a minimum of 20 minutes. If irritation persists get medical attention immediately. Inhalation – Move person to fresh air. Give artificial respiration only if breathing has stopped. Give cardiopulmonary resuscitation only if there is no breathing and no pulse. Ingestion – If person is alert and not convulsing rinse out mouth with ¼ to 1 cup of water to dilute material. Do NOT induce vomiting. This product contains materials that may cause severe pneumonitis if aspirated. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage: use endotracheal cuff if available to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artificial respiration and chemotherapy if respiration is depressed				
IARC has found that there is limited evidence that perchloroethylene is carcinogenic in mice. The national toxicology program(NTP) technical review panel concluded that a lifetime rat and mouse experiment on perchloroethylene shows clear evidence of potential for liver cancer in male and female mice, kidney cancer in male rats and possible leukemia in male and female rats. Because exposure potential is also a critical element in the expression of a potential health hazard this product IF HANDLED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGENE PRACTICE WILL NOT PRESENT AN CARCINOGENIC RISK IN THE WORKPLACE. Other precautions: Vapors of this product are heavier than air and will collect in low areas such as pits, degreasers, storage tanks and other confined areas. Do not enter these areas unless special breathing equipment is used.				
SECTION 9 — PREPARATION DATE OF MSDS				
PREPARED BY (GROUP, DEPARTMENT, ETC.) Health and Safety Department	PHONE NUMBER 1-800-263-4624	DATE 04/24/07		

