

REC'D JUL 28 1997

MATERIAL SAFETY DATA SHEET

2363
#N06A

SECTION 1 — PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER ▶ SERVICE FIRST REFRIGERATION COIL CLEANER (AEROSOL)		PRODUCT IDENTIFICATION NUMBER (PIN) CHM00013	
PRODUCT USE ▶ Cleans grease and soil from condensers and electronic parts			
MANUFACTURER'S NAME SOLD BY: North American Research Corporation		SUPPLIER'S NAME The Trane Company	
STREET ADDRESS 519 Huffines Blvd.		STREET ADDRESS 3600 Pammel Creek Road	
CITY Lewisville	PROVINCE Texas USA	CITY La Crosse	PROVINCE Wisconsin USA
POSTAL CODE 75056	EMERGENCY TELEPHONE NO. (972) 492-1800	POSTAL CODE 54601	EMERGENCY TELEPHONE NO. 800-424-9300

SECTION 2 — HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC ₅₀ OF INGREDIENT (SPECIFY SPECIES)
*Trichloroethylene	20-50	79-01-6	ORL - MUS: 2402mg/kg	IHL - MUS: 8450ppm/4hr
Propellant, Carbon Dioxide	40-90	124-38-9	--	--
NFPA HAZARD RATING:				
"2" Health				
"0" Flammable				
"0" Reactivity				

SECTION 3 — PHYSICAL DATA

PHYSICAL STATE Liquid Spray	ODOUR AND APPEARANCE Colorless liquid; Chloroform odor			ODOUR THRESHOLD (ppm) 25-50 ppm
VAPOUR PRESSURE (mmHg) 58 @ 20°C	VAPOUR DENSITY (AIR=1) 4.54	EVAPORATION RATE 0.69	BOILING POINT(°C) 188°F	FREEZING POINT(°C) N/A
pH N/A	SPECIFIC GRAVITY N/A	COEFF. WATER/OIL DIST. Minute		

SECTION 4 — FIRE AND EXPLOSION DATA

FLAMMABILITY YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, UNDER WHICH CONDITIONS? ▶		
MEANS OF EXTINCTION: Foam, CO ₂ or dry chemical. Use shielding to protect personnel against bursting, rupturing or venting of containers. Aerosols at temperatures above 130°F, may vent, rupture or burst.		
FLASHPOINT (°C) AND METHOD Not flammable	UPPER FLAMMABLE LIMIT (% BY VOLUME) (6) 40%	LOWER FLAMMABLE LIMIT (% BY VOLUME) (1) 15%
AUTOIGNITION TEMPERATURE (°C) N/A	HAZARDOUS COMBUSTION PRODUCTS Hydrochloric acid, oxides of carbon & minute traces of phosgene & chlorine may be formed.	
EXPLOSION DATA ▶	SENSITIVITY TO IMPACT N/A	SENSITIVITY TO STATIC DISCHARGE N/A

SECTION 5 — REACTIVITY DATA

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, UNDER WHICH CONDITIONS? ▶	
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF SO, WHICH ONES? ▶ Contact with aluminum chloride	
REACTIVITY, AND UNDER WHAT CONDITIONS Strong oxidizing agents, strong acids or bases and some amines	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide and/or carbon dioxide	

*If the hazardous ingredients are listed with an asterisk, the ingredient is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 and 40CFR Part 372.

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PRODUCT IDENTIFIER SERVICE FIRST REFRIGERATION COIL CLEANER (AEROSOL)

SECTION 6 — TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY			
SKIN CONTACT <input checked="" type="checkbox"/>	SKIN ABSORPTION <input checked="" type="checkbox"/>	EYE CONTACT <input checked="" type="checkbox"/>	INGESTION <input checked="" type="checkbox"/>
EFFECTS OF ACUTE EXPOSURE TO PRODUCT Eye irritation and dermatitis			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT Headache, nausea and dizziness. Death could result if TLV (100ppm) is exceeded			
EXPOSURE LIMITS TLV: 100ppm (200ppm ceiling)	IRRITANCY OF PRODUCT Existing dermatitis	SENSITIZATION TO PRODUCT May defatt tissue and cause dryness	CARCINOGENICITY No
TERATOGENICITY Yes, if STEL values exceed over 4hr	REPRODUCTIVE TOXICITY Possible if STEL values are exceeded	MUTAGENICITY N/A	SYNERGISTIC PRODUCTS N/A

SECTION 7 — PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:		
GLOVES (SPECIFY) None required	RESPIRATOR (SPECIFY) (TLV 100ppm) Not required if TLV is not exceeded	EYE (SPECIFY) Safety glasses or eye goggles w/side shields
FOOTWEAR (SPECIFY) Normal footwear	CLOTHING (SPECIFY) Normal work clothes	OTHER (SPECIFY) N/A
ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS.) Use this product with plenty of ventilation. Never use this product in a confined area. Mechanical exhust required if TLV is exceeded. Hood or fan ventilation is recommended.		
LEAK AND SPILL PROCEDURE Remove sources of flame, spark or heat. Provide adequate ventilation. Wipe up spills then wash with a cleaner to remove residue.		
WASTE DISPOSAL Replace cap and discard container in trash. Do not puncture or incinerate can. Recycle if possible.		
HANDLING PROCEDURES AND EQUIPMENT Keep out of reach of children. Contents under pressure. Avoid breathing vapors or spraymists. Follow all label directions.		
STORAGE REQUIREMENTS Store in a cool dry area away from heat. Containers may burst above 120°F. Never store on shelves near windows with direct sunlight.		
SPECIAL SHIPPING INFORMATION Consumer Commodity ORM-D, Cleaning Compound NOI		

SECTION 8 — FIRST AID MEASURES

SPECIFIC MEASURES Product is harmful if swallowed, inhaled or absorbed through the skin.
EYES: flush eyes with plenty of water, hold eyelids up and wash thoroughly.
SKIN: wash off affected skin with soap and water and remove any contaminated clothing.
INGESTION: DO NOT induce vomiting because of aspiration pneumonia hazard. Immediately rinse mouth with water, spit out & drink a glassful or more of water. Get immediate medical attention.
INHALATION: Remove to fresh air. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

SECTION 9 — PREPARATION DATE OF MSDS

PREPARED BY (GROUP, DEPARTMENT, ETC.) <i>George P. Allen</i>	PHONE NUMBER (972) 492-1800	DATE 7/8/97
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