RECTI JUL 2'8 1997 MATERIAL SAFETY DATA SHEET



	SECTION 1	— PRODUCT	T IDENTIFICA	TION AND USE		
PRODUCT DENTFIER SERVICE FIRST MICROBIOCIDE					PRODUCT IDENTIFICATION NUMBER (PIN) CHM 0 0 0 2 7	
PRODUCT Broad	spectrum microbi	locide for c	ooling water	systems		
MANUFACTURER'S NAME North American Research Corporation			SUPPLIER'S NAME The Trane Company			
STREET ADDRESS 519 Huffines Blv	- Company - Comp	STREET ADDRESS 3600 Pammel Creek Road		- 1994-1995 у Болонос и природности в Соло сточной в 1994-1996 в во Столи в В.В. 1994 в во стопу у продуствення по поставления в поста		
CITY PROVINCE		СПУ		PROVINCE		
POSTAL CODE EMERGENCY TELEF				_	Misconsin USA EMERGENCY TELEPHONE NO.	
75056 (972) 492-1800 54601 800-424-9300						
SECTION 2 — HAZARDOUS INGREDIENTS						
HAZARDOUS INGREDIENTS		*	CAS NUMBER	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES AND ROUT	LC ₅₀ OF INGREDIENT (SPECIFY SPECIES)	
Poly[oxyethylene(dimethyliminio) 5 - 10	31075-24-8	Acute oral:	0.43ppm 96hr	
ethylene-(dimethyliminio)				rats, male;	Rainbow trout	
ethylene dichloride]				3690 mg/kg;		
				rats, female		
NFPA HAZARD RATING:		CONTRACTOR AND CONTRA		1850 mg/kg Dermal: rabbit	α	
"1" Health "0" Flammable				>2000mg/kg slig		
"0" Reactivity			skin irri			
U Reactivity		тоном «—	PHYSICAL I			
PHYSICAL STATE	ODCUR AND APPEARANCE			ODOU	R THRESHOLD (ppm) determined	
Liquid VAPOUR PRESSURE	VAPOUR DENSITY		raw liquid; Bland odor EVAPORATION RATE BOILING POINT('C)		ZING POINT('C)	
(mm Hg) N / A	(AIR=1) N/A SPECIFIC GRAVITY	N/A COEFF. WATER	Abo		ow 0°C	
рн 6 – 7	1.023	N/A	VOIL DIST.	·		
SECTION 4 — FIRE AND EXPLOSION DATA FLAMMABILITY YES O NO 4 IF YES, UNDER WHICH CONDITIONS?						
MEANS OF EXTINCTION Use proper exti to keep contain		for surround	ling fire. S	Spray containers	with a water fog	
FLASHPOINT ('C) AND METHOD None (TCC and TOC)		UPPER FLAMMABLE LIMIT (% BY VOLUME) N / A			R FLAMMABLE LIMIT VOLUME) N/A	
AUTOIGNITION TEMPERATURE (°C)			HAZARDOUS COMBUSTION PRODUCTS			
N/A		None	None Known			
EXPLOSION SE	NSITIVITY TO IMPACT None	Accessed to the second	SENSITIVITY TO	STATIC DISCHARGE		
	SE	CTION 5 — I	REACTIVITY	DATA		
CHEMICAL STABILITY YES 10 NO 1 IF NO, UNIT WHICH C	7			•		
INCOMPATIBILITY WITH OTHER SUBSTANCES YES ON ONE IF SO, WHICH ONES?						
REACTIVITY, AND UNDER WHAT CONDITIONS None						
HAZARDOUS DECOMPOSITION	PRODUCTS	ang anakanangan can apagmang menamendan anakan dapan pada permanan ang mang mang mang mang mang mang		nannannannannannannannannannannannannan		
None						

PRODUCT **IDENTIFIER**

N/A

SERVICE FIRST MICROBIOCIDE

SECTION 6 — TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY

INHALATION K INGESTION X SKIN ABSORPTION 🗔 EYE CONTACT (X) SKIN CONTACT C

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

INHALATION: irritation to mucous membranes and lungs.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

All test proved negative.

EXPOSURE LIMITS Not determined. deaths after 1hr of exposure at 26.4 mg/L TERATOGENICITY

IRRITANCY OF PRODUCT None through the skin at doses of 2 or 20 mg

Rats - none @ 6000ppm

SENSITIZATION TO PRODUCT No evidence based 2% and humans

MUTAGENICITY

solution on guinea pigs Not a carcinogenic

CARCINOGENICITY

REPRODUCTIVE TOXICITY

Negative @ doses up to Chlorine will reduce 1500 mg/kg

SYNERGISTIC PRODUCTS the concentration to achieve an effective kill

PREVENTIVE MEASURES SECTION 7-

PERSONAL PROTECTIVE EQUIPMENT:

EYE (SPECIFY) GLOVES (SPECIFY) RESPIRATOR (SPECIFY) none required chemical safety goggles Rubber OTHER (SPECIFY) CLOTHING (SPECIFY) FOOTWEAR (SPECIFY N/A normal work clothes usual

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS.)

Local exhaust should be sufficient for ventilation. Mechanical exhaust should be used in Always use this product in a well ventilated area. an enclosed area.

Contain all spills or leaks to prevent discharge into the environment. LEAK AND SPILL PROCEDURE

This product is an EPA registered

WASTE DISPOSAL

This product is not considered hazardous, however abide by all regulations.

Always wear chemical goggles and rubber gloves when handling HANDLING PROCEDURES AND EQUIPMENT Read entire label and MSDS before using. product.

STORAGE REQUIREMENTS

Keep out of reach of children Store containers in a dry, cool area away from direct sunlight.

SPECIAL SHIPPING INFORMATION

Compound Cleaning Liquid NOS (non-hazardous)

SECTION 8 — FIRST AID MEASURES

SPECIFIC MEASURES

SKIN: wash exposed area with plenty of soap & water. Remove contaminated clothing and wash thoroughly before reuse.

EYES: flush with copious amount of tap water or normal saline for 15 minutes. See physician INHALATION: remove to fresh air. If breathing is difficult, administer oxygen. Consult a physician.

INGESTION: drink promptly a large quantity of milk, egg whites, gelatin solution or a large quantity of water. Avoid alcohol. Do not give fluids to an unconscious person.

> SECTION 9 -- PREPARATION DATE OF MSDS

PREPARED, BY (GROUP, DEPARTMENT, ETC.) PHONE NUMBER

(972)492-1800

7/8/97

DATE