

T. DONOVAN & SON (1997) LTD.
MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: TRIPLE C # 544
CHEMICAL NAME: COOLING TOWER TREATMENT

MANUFACTURER: T. DONOVAN & SON (1997) LTD
REGULAR PHONE #: 506-642-1500 HOURS: 8:30 - 4:30
EMERGENCY PHONE #: 613-996-6666 CHEMICAL EMERGENCIES ONLY

PRODUCT USE: INDUSTRIAL APPLICATION

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	CONC.%	CAS #
SODIUM MOLYBDATE DIHYDRATE	5-10 %	7631-95-0
SODIUM HEXAMETAPHOSPHATE	5-10 %	10124-56-8
POTASSIUM HYDROXIDE	15-20 %	1310-58-3
ACRYLIC TERPOLYMER	1-5 %	NON HAZARDOUS
SODIUM TOLYTRIAZOLE	1-5 %	64665-57-2
AMINO TRI (METHYLENE PHOSPHONIC ACID)	1-5 %	6419-19-8
WATER	45-60 %	7732-18-5

SECTION III - PHYSICAL DATA

PHYSICAL STATE	: LIQUID	ODOR	: NONE
BOILING POINT (C)	: N/A	FREEZING POINT (C)	: 0 DEG C
ODOR THRESHOLD	: N/A	VAPOR PRESSURE	: N/A
VAPOR DENSITY	: N/AP	PERCENT VOLATILE	: 0
EVAPORATION RATE	: N/AP	pH	: 10-11 (1% SOLN.)
SPECIFIC GRAVITY: 1.17 @ 20 DEG C		COEFF WATER / OIL	: N/AP
SOLUBILITY IN WATER: SOLUBLE		BULK DENSITY	: N/A

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY : NON FLAMMABLE
EXTINGUISHING MEDIA : NON FLAMMABLE, FOR FIRES INVOLVING THIS PRODUCT,
WATER FOG, CO2, OR FOAM MAY BE USED.
SPECIAL FIRE FIGHTING PROC : WEAR NIOSH APPROVED SELF CONTAINED BREATHING
APPARATUS.
FIRE & EXPLOSION HAZARDS : NONE
FLASHPOINT : NON COMBUSTIBLE
AUTO-IGNITION TEMPERATURE (C): N/A
UPPER FLAMMABILITY LIMIT : N/A
LOWER FLAMMABILITY LIMIT : N/A
HAZARDOUS COMB. PROD. : SEE SECTION V
EXPLOSION SENSITIVITY TO IMPACT: N/A
SENSITIVITY TO STATIC : N/A

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY : YES, STABLE UNDER NORMAL CONDITIONS OF USE.
INCOMPATIBILITY : STRONG OXIDIZNG AGENTS, ACIDS
CONDITIONS TO AVOID : EXTREME HEAT
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS DECOMPOSITION: OXIDES OF NITROGEN

SECTION VI - TOXICOLOGICAL EFFECTS

CHRONIC AND ACUTE EFFECTS UPON ROUTES OF ENTRY

EYE CONTACT: IRRITANT & CORROSIVE - IRRITATION MAY OCCUR, MAY CAUSE BURNS

SKIN CONTACT: IRRITANT & CORROSIVE - MAY CAUSE BURNS

INGESTION: CORROSIVE - CAN CAUSE BURNING AND PAIN IN LIPS, MOUTH, THROAT AND STOMACHE.

INHALATION: IRRITATION OF NOSE, THROAT AND LUNGS.

EXPOSURE LIMITS	: NONE	SYNERGISTIC PRODUCTS	: NONE
IRRITANCY	: NONE	SENSITIZATION	: NONE
CARCINOGENICITY	: NONE	TERATOGENICITY	: NONE
MUTAGENICITY	: NONE	REPRODUCTIVE TOXICITY	: NONE

SECTION VII - EMERGENCY AND FIRST AIR PROCEDURES

IN ALL CASES, SEEK MEDICAL ATTENTION IMMEDIATELY

EYE CONTACT: FLUSH EYES WITH WATER FOR 30 MINUTES, HOLDING THE EYELIDS OPEN. A NEUTRAL SALINE SOLUTION MAY BE USED TO FLUSH CONTAMINATED EYES.

SKIN CONTACT: FLUSH WITH WATER FOR 30 MINUTES. REMOVE CONTAMINATED CLOTHING. COMPLETELY DECONTAMINATE CLOTHING AND ALL PROTECTIVE EQUIPMENT.

INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER OR MILK. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD. REPEAT ADMINISTERING WATER.

INHALATION: REMOVE FROM CONTAMINATED AREA. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF DIFFICULTY BREATHING, GIVE OXYGEN.

SECTION VIII - PREVENTIVE MEASURES

EYE PROTECTION : SAFETY OR CHEMICAL GLASSES FOR FULL FACE MASK.
SKIN PROTECTION : RUBBER OR PLASTIC GLOVES, COVERALLS OR APRON.
RESPIRATORY PROTECTION : WEAR NIOSH APPROVED RESPIRATOR.
ENGINEERING CONTROLS : GENERAL MECHANICAL VENTILATION.

SPILL & LEAK PROCEDURES : WEAR NECESSARY PROTECTIVE CLOTHING AND EQUIPMENT. PUMP SPILLED PRODUCT INTO WASTE CONTAINER. CONTAIN LARGE SPILLS FOR LATER DISPOSAL.

WASTE DISPOSAL : DISPOSE ACCORDING TO LOCAL, PROVINCIAL AND FEDERAL LAWS.

HANDLING & STORAGE : STORE IN CLOSED CONTAINERS IN DRY, COOL AREAS. DO NOT STORE NEAR ACIDS.

SECTION IX - TRANSPORT AND REGULATORY INFORMATION

TDG REGULATION : POTASSIUM HYDROXIDE SOLUTION
CLASS 8, UN 1814, PG III

WHMIS CLASSIFICATION : CLASS D-1B, E

PREPARED BY: TECHNICAL SERVICES DEPARTMENT
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