

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

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: TRIPLE C # 852  
CHEMICAL NAME: COMBINED BOILER WATER 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 HYDROXIDE	1-5 %	1310-73-2
SODIUM SULFITE	5-10 %	7757-83-7
SODIUM HEXAMETAPHOSPHATE	1-5 %	10124-56-8
MORPHOLINE	1-5 %	110-91-8
ACRYLIC TERPOLYMER	1-5 %	NON HAZARDOUS
WATER	70-90 %	7732-18-5

SECTION III - PHYSICAL DATA

PHYSICAL STATE	: LIQUID	ODOR	: SLIGHT AMINE ODOR
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	: 9.8 (1% SOLN.)
SPECIFIC GRAVITY: 1.18 @ 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. : NONE KNOWN  
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 ACIDS

CONDITIONS TO AVOID : REACTS WITH ACIDS, SODIUM NITRITE, SODIUM NITRATE,  
OXIDIZING AGENTS

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION: SULFUR DIOXIDE, CARBON DIOXIDE

## SECTION VI - TOXICOLOGICAL EFFECTS

### CHRONIC AND ACUTE EFFECTS UPON ROUTES OF ENTRY

EYE CONTACT: CORROSIVE - CAUSES IRRITATION AND SEVERE BURNS. ULCERATION & BLINDNESS MAY OCCUR.

SKIN CONTACT: CORROSIVE - CAPABLE OF CAUSING SEVERE BURNS WITH DEEP ULCERATION AND TEMPORARY LOSS OF HAIR.

INGESTION: STRONG PAIN, BURNING OF MOUTH AND THROAT, VOMITING, DIARRHEA, INFLAMMATION OF LARYNX, COMA OR POSSIBLE DEATH.

INHALATION: IRRITATION OF NOSE, THROAT AND LUNGS. SEVERE PNEUMONITIS MAY OCCUR.

EXPOSURE LIMITS : N/A SYNERGISTIC PRODUCTS : N/A

IRRITANCY : N/A SENSITIZATION : N/A

CARCINOGENICITY : N/A TERATOGENICITY : N/A

MUTAGENICITY : N/A REPRODUCTIVE TOXICITY : N/A

## SECTION VII - EMERGENCY AND FIRST AID 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.

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## 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 : CORROSIVE LIQUID, FLAMMABLE, N.O.S. (MORPHOLINE)  
CLASS 8 (3), UN #2920, PG II

WHMIS CLASSIFICATION : CLASS B-2, E, D-1B, D-2A

PREPARED BY: TECHNICAL SERVICES DEPARTMENT  
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