

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

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: TRIPLE C # 846

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 | 5-10 % | 1310-73-2 |
| SODIUM SULFITE | 10-15 % | 7757-83-7 |
| SODIUM HEXAMETAPHOSPHATE | 1-5 % | 10124-56-8 |
| ACRYLIC TERPOLYMER | 1-5 % | NON HAZARDOUS |
| WATER | 65-85 % | 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 | : 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

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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 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 : SODIUM HYDROXIDE SOLUTION
CLASS 8, UN #1824, PG II

WHMIS CLASSIFICATION : CLASS E, D-2A

PREPARED BY: TECHNICAL SERVICES DEPARTMENT
T. DONOVAN & SON (1997) LTD.
P.O. BOX 183
SAINT JOHN, N.B.
E2L 3X8

PREPARATION DATE : NOVEMBER 2, 1997

REVISION DATE: DECEMBER 15, 2013

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