

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

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: TRIPLE C # 593
CHEMICAL NAME: MICROBIOCIDAL 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 #
2-BROMO-2-NITROPROPANE-1,3-DIOL (BNPD)	10-15 %	52-51-7
WATER	85-90 %	7732-18-5

SECTION III - PHYSICAL DATA

PHYSICAL STATE : LIQUID	ODOUR : FAINT ODOUR
BOILING POINT (C) : N/A	FREEZING POINT (C) : 0 DEG C
ODOUR THRESHOLD : N/A	VAPOR PRESSURE : N/A
VAPOR DENSITY : N/A	PERCENT VOLATILE : N/A
EVAPORATION RATE : N/A	pH : NOT GREATER THAN 7
DENSITY : N/A	COEFF WATER / OIL : N/A
SOLUBILITY IN WATER: SOLUBLE	BULK DENSITY : N/A

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY : STABLE AT NORMAL TEMPERATURES.
EXTINGUISHING MEDIA : FOR FIRES INVOLVING THIS PRODUCT, WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL POWDER MAY BE USED.
SPECIAL FIRE FIGHTING PROC: BNPD (100%) WILL BURN IN AIR PRODUCING TOXIC GASES. SELF-CONTAINED BREATHING APPARATUS SHOULD BE PROVIDED FOR FIREMAN FIGHTING IN CONFIRMED SPACES.
FIRE & EXPLOSION HAZARDS : MAXIMUM TEMPERATURE OF 90°C RECOMMENDED TO AVOID RISK OF SELF HEATING AND RAPID DECOMPOSITION.
FLASHPOINT : N/A
AUTO-IGNITION TEMPERATURE (C): N/A
UPPER FLAMMABILITY LIMIT : N/A
LOWER FLAMMABILITY LIMIT : N/A
HAZARDOUS COMB. PROD. :N/A
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 : OXIDIZING MATERIALS, HEAT AND SOURCES OF IGNITION.

CONDITIONS TO AVOID : OXIDIZING MATERIALS, HEAT AND SOURCES OF IGNITION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION: WHEN HEATED ABOVE 140°C, THE SOLID DECOMPOSES EXOTHERMICALLY LIBERATING TOXIC HYDROGEN BROMIDE AND OXIDES OF NITROGEN AND SWELLING UP TO GIVE A STICKY, TARRY MASS WHICH BURNS READILY IN A FIRE. THE DECOMPOSITION TEMPERATURE IS SIGNIFICANTLY LOWERED IN THE PRESENCE OF ORGANIC BASES TO AN EXTENT PROPORTIONAL TO THE AMOUNT OF BASE PRESENT.

SECTION VI - TOXICOLOGICAL EFFECTS

CHRONIC AND ACUTE EFFECTS UPON ROUTES OF ENTRY

EYE CONTACT: CORROSIVE, POTENTIAL EYE IRRITATION

SKIN CONTACT: CORROSIVE, SLIGHT SKIN IRRITATION

INHALATION: POTENTIAL IRRITATION OF NOSE, THROAT AND LUNGS.

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: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER.

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

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.
FLOOR MAY BE SLIPPERY, USE CARE TO AVOID FALLING. CONTAIN SPILL WITH INERT MATERIAL (SAND, EARTH). TRANSFER LIQUID AND DIKING MATERIAL TO SEPARATE CONTAINER FOR DISPOSAL.

HANDLING & STORAGE : STORE BELOW 25°C AWAY FROM:

- (i) OXIDIZING MATERIALS
- (ii) HEAT AND SOURCES OF IGNITION
- (iii) FOOD, DRINK AND ANIMAL FEEDING STUFFS

SECTION IX - TRANSPORT AND REGULATORY INFORMATION

TDG REGULATION : NON REGULATED

PEST CONTROL PRODUCTS ACT: REGISTRATION NUMBER 21153

WHMIS CLASSIFICATION: CLASS E, D1B. THIS PRODUCT IS REGULATED BY THE PEST CONTROLS PRODUCT ACT, AGRICULTURE CANADA.

PREPARED BY: TECHNICAL SERVICES DEPARTMENT
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PREPARATION DATE : DECEMBER 15, 2010

REVISION DATE: DECEMBER 15, 2013

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