

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

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: SODIUM BISULPHITE SOLUTION 18.05%
CHEMICAL NAME: SODIUM BISULPHITE SOLUTION

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 USE ONLY.

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENTS | CONC.% | CAS # |
|-----------------------|---------|-----------|
| SODIUM METABISULPHITE | 15-25 % | 7681-57-4 |
| WATER | 80-85 % | 7732-18-5 |

SECTION III - PHYSICAL DATA

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|----------------------------------|----------|--------------------|---------------|
| 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 | : N/A |
| EVAPORATION RATE | : N/AP | pH | : 4 (1% SOLN) |
| SPECIFIC GRAVITY: 1.2 @ 15 DEG C | | COEFF WATER / OIL | : N/AP |
| SOLUBILITY IN WATER: SOLUBLE | | BULK DENSITY | : N/AP |

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY : NON FLAMMABLE
EXTINGUISHING MEDIA : WATER SPRAY, CO2, OR DRY CHEMICAL
SPECIAL FIRE FIGHTING PROC : WEAR NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS.
FIRE & EXPLOSION HAZARDS : REDUCING REAGENT. REACTS WITH OXIDIZING MATERIALS. MAY IGNITE OR EVEN EXPLODE.
FLASHPOINT : NOT APPLICABLE
AUTO-IGNITION TEMPERATURE (C): N/A
UPPER FLAMMABILITY LIMIT : N/A
LOWER FLAMMABILITY LIMIT : N/A
HAZARDOUS COMB. PROD. : SULFUR DIOXIDE
EXPLOSION SENSITIVITY TO IMPACT: N/A
SENSITIVITY TO STATIC : N/A

BISULPHITE

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY : YES, STABLE UNDER NORMAL CONDITIONS OF USE.

INCOMPATIBILITY : STRONG OXIDIZERS, ACIDS, NITRATES, NITRITES,
ALCOHOL, STRONG BASES.

CONDITIONS TO AVOID : EXCESSIVE HEAT

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION: SULFUR DIOXIDE

SECTION VI - TOXICOLOGICAL EFFECTS

CHRONIC AND ACUTE EFFECTS UPON ROUTES OF ENTRY

EYE CONTACT: CORROSIVE - CAUSES IRRITATION.

SKIN CONTACT: PROLONGED CONTACT WITH CAUSE IRRITATION.

INGESTION: WILL CAUSE ADVERSE HEALTH EFFECTS.

INHALATION: IRRITATION TO NOSE, THROAT AND LUNGS.

| | | | |
|-----------------|--------|-----------------------|----------------------|
| EXPOSURE LIMITS | : N/A | SYNERGISTIC PRODUCTS | : NONE |
| IRRITANCY | : N/A | SENSITIZATION | : MAY SENSITIZE SKIN |
| CARCINOGENICITY | : NONE | TERATOGENICITY | : NONE |
| MUTAGENICITY | : NONE | REPRODUCTIVE TOXICITY | : NONE |

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.

SKIN CONTACT: FLUSH WITH RUNNING WATER AND WASH WITH SOAP AND WATER. 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 ONLY BY TRAINED PERSONNEL.

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. |

BISULPHITE

SPILL & LEAK PROCEDURES : WEAR NECESSARY PROTECTIVE CLOTHING AND EQUIPMENT. CONSTRUCT A BARRIER. PUMP SPILLED PRODUCT INTO WASTE CONTAINER.

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

HANDLING & STORAGE : STORE IN CLOSED CONTAINERS IN DRY, COOL AREAS.

SECTION IX - TRANSPORT AND REGULATORY INFORMATION

TDG REGULATION : BISULPHITES, AQUEOUS SOLUTION, N.O.S.
(SODIUM BISULPHITE)
CLASS 8, UN 2693, PG III

WHMIS CLASSIFICATION : CLASS D2A, D2B, E

PREPARED BY: TECHNICAL SERVICES DEPARTMENT
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