

**PRODUCT: SODIUM METABISULFITE 18.05%**

**SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**MANUFACTURER:** T. DONOVAN & SON (1997) LTD.  
700 WILSON STREET  
SAINT JOHN, NEW BRUNSWICK  
CANADA E2M 3V2  
TOLL FREE: 1-888-799-2645 / LOCAL (506) 642-1500

**PRODUCT NAME:** Sodium Metabisulfite 18.05%

**CHEMICAL FORMULA:** NaHSO<sub>3</sub>

**CHEMICAL FAMILY:** Inorganic Sodium Salt.

**MATERIAL USE:** Boiler Water Treatment.

**EMERGENCY PHONE NUMBER:** (613)-996-6666

**SECTION 02: HAZARDS IDENTIFICATION**



**SIGNAL WORD:** DANGER

**HAZARD CLASSIFICATION:** Corrosive to Metals - Category.  
Skin Corrosion/Irritation - Category 2.  
Serious Eye Damage/Irritation - Category 2A.  
Respiratory Sensitization Category 1.  
Skin Sensitization - Category 1.

**HAZARD STATEMENT:** **H290:** May be corrosive to metals.  
**H315:** Causes skin irritation.  
**H317:** May cause an allergic skin reaction.  
**H319:** Causes serious eye irritation.  
**H334:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**PRECAUTIONARY STATEMENT:** **P234:** Keep only in original container.  
**P261:** Avoid breathing gas, mist, vapours, spray.  
**P264:** Wash skin thoroughly after handling.  
**P280:** Wear protective gloves, protective clothing, eye protection or face protection.  
**P284:** Wear respiratory protection.  
**P302 + P352:** IF ON SKIN: wash with plenty of soap and water.  
**P304 + P340:** IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
**P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P332 + P313:** IF SKIN irritation occurs: Get medical attention.  
**P333 + P313:** IF SKIN irritation or rash occurs: Get medical attention.  
**P337 + P313:** IF eye irritation persists: Get medical attention.  
**P342 + P311:** IF experiencing respiratory symptoms: call a POISON CENTER or physician.  
**P362:** Take off contaminated clothing and wash before reuse.  
**P390:** Absorb spillage to prevent material damage.  
**P406:** Store in corrosive resistant container with a resistant inner liner.  
**P501:** Dispose of contents/container to an approved waste disposal plant.

**OTHER HAZARDS:** None.

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**SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT(S)	CAS #	WT. %
Sodium Bisulfite	7631-90-5	18 - 20

Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

**SECTION 04: FIRST AID MEASURES**

<b>GENERAL ADVICE:</b>	Move out of dangerous area. Perform first aid measures as indicated. Seek medical attention and show this safety data sheet to attending physician.
<b>IF INHALED:</b>	Move to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs or persists, seek immediate medical attention. If not breathing give artificial respiration and seek immediate medical attention.
<b>IN CASE OF SKIN CONTACT:</b>	Immediately flush exposed skin with water for at least 15 minutes while removing contaminated clothing and/or shoes. Thoroughly wash with soap and water. Seek medical attention if irritation develops or persists.
<b>IN CASE OF EYE CONTACT:</b>	Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Check for and remove any contact lenses if easy to do. Seek medical attention if irritation develops or persists.
<b>IF SWALLOWED:</b>	Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.
<b>THE MOST IMPORTANT SYMPTOMS AND EFFECTS, WHETHER ACUTE OR DELAYED:</b>	No Information Available.

**SECTION 05: FIRE FIGHTING MEASURES**

<b>SUITABLE EXTINGUISHING MEDIA:</b>	Use extinguishing media suitable for surrounding fire or source of fire. Use water spray to cool fire exposed containers.
<b>SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:</b>	In fire conditions after water loss, combustion may produce sulfur oxides and other unidentified chemical compounds.
<b>SPECIAL PROCEDURES:</b>	No Information Available.
<b>PROTECTION DURING FIREFIGHTING:</b>	Wear full protective gear and full-face pressure demand self-contained breathing apparatus.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

<b>PERSONAL PRECAUTIONS:</b>	Avoid direct contact with skin, eyes and clothing. Avoid inhalation of mist, vapor or dust. Wear appropriate personal protective equipment as outlined in Section 8 of this Safety Data Sheet (SDS).
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Prevent further leakage or spillage if safe to do so. Contain spilled material and prevent run-off onto ground or into water sources or sewers.
<b>METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:</b>	Absorb on inert material and place in containers for disposal. Dispose of spilled/collected material in accordance with all Federal, Provincial and local regulations.

**SECTION 07: HANDLING AND STORAGE**

<b>PRECAUTIONS FOR SAFE HANDLING:</b>	Avoid contact with skin and eyes. Avoid inhalation of mist, vapor and dust. Ensure adequate ventilation. Do not eat, drink or smoke while handling. Wear appropriate personal protective equipment as outlined below in Section 8.
<b>CONDITIONS FOR SAFE STORAGE:</b>	Store in original container. Keep container tightly closed. Store at room temperature (10-32°C) in a dry well-ventilated area.

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**SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENTS	ACGIH TLV		PEL	OSHA PEL		NIOSH REL
	TWA	STEL		STEL		
Sodium Bisulfite	-	5 mg/m <sup>3</sup>	-	-	-	-

Definitions:

ACGIH - American Conference of Governmental Industrial Hygienists.  
 NIOSH - National Institute for Occupational Safety and Health.  
 OSHA - Occupational Safety and Health Administration.  
 PEL - Permissible Exposure Limit.

RELs - Recommended Exposure Limits.  
 STEL - Short-term Exposure Limit.  
 TLV - Threshold Limit Value.  
 TWA - Time Weighted Average.

<b>ENGINEERING CONTROLS:</b>	Use local and/or general exhaust ventilation to maintain air-born concentrations below irritating levels or exposure limits. An eyewash and safety shower should be available in the work area.
<b>SKIN AND BODY PROTECTION:</b>	Wear chemical resistant gloves when handling. Wear chemical resistant apron when handling.
<b>EYE/FACE PROTECTION:</b>	Safety glasses or chemical goggles should be worn when handling this material.
<b>RESPIRATORY PROTECTION:</b>	Wear respiratory protection while using this material.
<b>GENERAL HYGIENE CONSIDERATIONS:</b>	Follow good hygiene and safety practice. Wash hands and exposed skin before breaks and at the end of the work day. Do not eat, drink or smoke while handling this material. Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse.
<b>OTHER/TYPE:</b>	No additional information available.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE:</b>	Colorless Liquid.
<b>ODOUR:</b>	Strong Sulfide.
<b>ODOUR THRESHOLD:</b>	Not Available.
<b>pH:</b>	5.5.
<b>MELTING POINT/FREEZING POINT:</b>	No Data Available.
<b>BOILING POINT:</b>	No Data Available.
<b>FLASH POINT, METHOD:</b>	No Data Available.
<b>EVAPORATION RATE:</b>	No Data Available.
<b>FLAMMABILITY (SOLIDS AND GASES):</b>	No Data Available.
<b>UPPER FLAMMABLE LIMIT (% BY VOL):</b>	No Data Available.
<b>LOWER FLAMMABLE LIMIT (% BY VOL):</b>	No Data Available.
<b>VAPOUR PRESSURE:</b>	No Data Available.
<b>VAPOUR DENSITY (AIR=1):</b>	No Data Available.
<b>SPECIFIC GRAVITY (WATER=1):</b>	1.12 g/cm <sup>3</sup> .
<b>SOLUBILITY IN WATER (% W/W):</b>	Soluble.
<b>AUTO IGNITION TEMPERATURE:</b>	No Data Available.
<b>PARTITION COEFFICIENT N-OCTANOL/WATER:</b>	No Data Available.
<b>DECOMPOSITION TEMPERATURE:</b>	No Data Available.
<b>VISCOSITY:</b>	No Data Available.

**SECTION 10: STABILITY AND REACTIVITY**

<b>REACTIVITY:</b>	Not reactive under normal use conditions.
<b>CHEMICAL STABILITY:</b>	Material is stable under normal handling and storage conditions.
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	Hazardous polymerization will not occur under normal handling and storage.
<b>CONDITIONS TO AVOID:</b>	Avoid excessive heating, freezing and chemical contamination.
<b>INCOMPATIBLE MATERIALS:</b>	Avoid contact with oxidizers and strong acids.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Sulfur dioxide, sulfur oxides and toxic vapors can result from heating or chemical contamination.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	EXPOSURE	SPECIES	DOSE
Sodium Bisulfite:	LD50	Rat	1420 mg/kg

**ACUTE TOXICITY:**

**ORAL:** May be corrosive to the gastrointestinal tract. May cause severe irritation and burns.  
**INHALATION:** May be corrosive to the respiratory tract. May be irritating and cause coughing, shortness of breath and allergic reaction in some individuals. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

**SKIN CONTACT:** May be corrosive to the skin. May cause severe irritation and burns.

**RESPIRATORY OR SKIN SENSITIZATION:** Mixture - Yes.

**EYE CONTACT:** May be corrosive to the eyes. May cause severe irritation and burns.

**GERM CELL MUTAGENICITY:** No Information Available.

**CARCINOGENICITY:** Mixture – Is this product is considered to be a potential carcinogen by:  
 National Toxicology Program (NTP): **No.**  
 OSHA: **No.**  
 International Agency for Research on Cancer (IARC): **No.**

**REPRODUCTIVE TOXICITY:** This product is not expected to cause reproductive and developmental effects.

**SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:** No Information Available.

**STOT - REPEAT EXPOSURE:** No Information Available.

**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** No Information Available.

**ASPIRATION HAZARD:** This product is not an aspiration hazard.

**POTENTIAL HEALTH EFFECTS:** No Information Available.

**SIGNS AND SYMPTOMS OF EXPOSURE:** No Information Available.

**SECTION 12: ECOLOGICAL INFORMATION**

**PERSISTENCE AND DEGRADABILITY:** No Information Available.

**BIOACCUMULATIVE POTENTIAL:** No Information Available.

**ECOTOXICITY:** Sodium Bisulfite:  
 Fish Toxicity: LC50, *Gambusia affinis* (Mosquito Fish), 240 mg/L (96 hr).

**MOBILITY IN SOIL:** No Information Available.

**OTHER ADVERSE EFFECTS:** No Information Available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS:** Dispose of material in accordance with all Federal, Provincial and local regulations.

**PACKAGING:** Triple rinse container and offer for recycling. Dispose of container following all Federal, Provincial and local regulations.

**SECTION 14: TRANSPORT INFORMATION**

**Transportation of Dangerous Goods (TDG):** Regulated.

**United States (US) Department of Transportation (DOT):** Regulated.

**UNITED NATIONS (UN) NUMBER:** 2693

**TRANSPORT HAZARD CLASS:** Class 8

**PACKING GROUP:** III

**PROPER SHIPPING NAME:** BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (SODIUM BISULFITE), 8, PG III.

**SPECIAL SHIPPING INSTRUCTIONS:** None.

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**SECTION 15: REGULATORY INFORMATION**

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION:

CLASS D2A, D2B, E.

CANADIAN INGREDIENT DISCLOSURE LIST SUBSTANCES:

None Listed.

US REGULATIONS:

OSHA Hazards:

Harmful by Ingestion.

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. Acute Health Hazard.

SARA 311/312 Hazards:

Sodium Bisulfite Listed.

CERCLA Hazardous Substance List: *Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):*

This chemical is not a pesticide product.

Clean Air Act Regulated Substances:

None:

Clean Water Act Regulated Substances:

Sodium Bisulfite

**STATE REGULATION FOR SODIUM HYDROGENSULPHITE:**

Massachusetts Right to Know Components

Sodium Bisulfite, CAS-No (7631-90-5).

Pennsylvania Right to Know Components

Sodium Bisulfite, CAS-No (7631-90-5) / Water (7732-18-5).

New Jersey Right to Know Components

Sodium Bisulfite, CAS-No (7631-90-5) / Water (7732-18-5).

California Prop. 65 Components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16: OTHER INFORMATION**

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) Hazard ID:

HEALTH	2
FLAMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	H

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*-Chronic health effect

National Fire Protection Association (NFPA):



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

PREPARED BY:

T. Donovan & Son (1997) Ltd.

PREPARATION DATE:

May 2018.

**DISCLAIMER:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Regulatory requirements are subject to change and may differ between various locations. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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