

PRODUCT: TRIPLE C #739L

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: T DONOVAN & SON (1997) LTD.
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PRODUCT NAME: Triple C #739L

CHEMICAL FORMULA: Na₂SO₃ + H₂O

MOLECULAR WEIGHT: 126.04

MATERIAL USE: Industrial Processes - Oxygen Scavenger Treatment.

EMERGENCY PHONE NUMBER: (613)-996-6666

SECTION 02: HAZARDS IDENTIFICATION

SIGNAL WORD: None.

HAZARD CLASSIFICATION: This material is not hazardous under the criteria of the Globally Harmonized System (GHS) Classification. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of this product. Please read before product use.

HAZARD STATEMENT: None.

PRECAUTIONARY STATEMENT: None.

OTHER HAZARDS: None.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS #	WT. %
Sodium Bisulphite	7757-83-7	15-25
Water	7732-18-5	75-85

Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

SECTION 04: FIRST AID MEASURES

GENERAL NOTE: Trace impurities and additional material names not listed above may appear in Section 15 of this SDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons. The exact concentrations are a trade secret.

IN CASE OF SKIN CONTACT: Immediately wash skin with plenty of soap and water. Remove contaminated clothing and laundry before reuse. Get medical attention if irritation persists.

IN CASE OF EYE CONTACT: Flush eyes immediately with water for at least 15 minutes. Remove contact lenses if present after the first 5 minutes if you can do so easily and continue flushing. Get medical attention if irritation occurs and persists.

IF SWALLOWED: If conscious, immediately rinse mouth with water and give 1 glass of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

IF INHALED: Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

THE MOST IMPORTANT SYMPTOMS AND EFFECTS, WHETHER ACUTE OR DELAYED: May irritate the skin. May cause irritation to the eyes. Harmful if swallowed. May cause severe and possibly fatal allergic reactions if inhaled or swallowed by some asthmatics and other 'sulfite-sensitive' individuals. Reacts with acids to form toxic and irritating sulfur dioxide gas.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY: Not Flammable.

SUITABLE EXTINGUISHING MEDIA: Material is not flammable. Use extinguishing media appropriate for material in surrounding fire.

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SECTION 05: FIRE FIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Releases toxic and irritating sulfur dioxide at fire temperatures.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTING: Wear National Institute for Occupational Safety and Health (NIOSH)-approved self-contained breathing apparatus. Use water-spray to keep containers cool, and to knock down vapors or gases.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Provide ventilation to clear sulfur dioxide fumes which may be generated by contact with water. Wear appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS: Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP: Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Prevent material from entering sewers. Flush with water to remove any residue. Comply with all Federal, Provincial, and local regulations.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin, eyes and clothing. Do not eat or drink in the work area. Use normal personal hygiene and housekeeping. Keep away from acids and oxidizing agents. (See Section 8 for recommended personal protective equipment.)

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, well-ventilated area away from acids and oxidizing agents.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT(S)	ACGIH TLV		OSHA PEL		NIOSH REL
	TWA	STEL	TWA	STEL	
Sodium Sulfite	-	-	-	-	-
Sodium Sulfate	-	-	-	-	-

Definitions:

ACGIH - American Conference of Governmental Industrial Hygienists. RELs - Recommended Exposure Limits.
 NIOSH - National Institute for Occupational Safety and Health. STEL - Short-term Exposure Limit.
 OSHA - Occupational Safety and Health Administration. TLV - Threshold Limit Value.
 PEL - Permissible Exposure Limit. TWA - Time Weighted Average.

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS: Sulfur dioxide: OSHA TWA = 5 ppm
 ACGIH STEL = 0.25 ppm

ENGINEERING CONTROLS: Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems. Do not use in unventilated spaces, e.g., the holds of fishing boats, walk-in coolers or confined spaces.

SKIN AND BODY PROTECTION: When handling solutions and there is prolonged or repeated contact, wear impervious gloves, clothing and boots.

EYE/FACE PROTECTION: Wear chemical safety goggles.

RESPIRATORY PROTECTION: Where required, use a NIOSH-approved respirator for gas/fume, dust, mist and/or sulfur dioxide gas, as conditions indicate. Some exposures may require a NIOSH-approved self-contained breathing apparatus or supplied-air respirator. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR (Code of Federal Regulations) 1910.134 and good industrial hygiene practice.

OTHER/TYPE: Eyewash and safety shower are recommended.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Clear to Light Yellow Liquid.
ODOUR:	Odorless.
ODOUR THRESHOLD:	Not Determined.
PH:	8.2-8.4 (10%).
MELTING POINT/FREEZING POINT:	0°C.
BOILING POINT:	Not Applicable.
FLASH POINT, METHOD:	Not Applicable.
EVAPORATION RATE:	Not Determined.
FLAMMABILITY (SOLIDS AND GASES):	Not Flammable.
UPPER FLAMMABLE LIMIT (% BY VOL):	Not Applicable.
LOWER FLAMMABLE LIMIT (% BY VOL):	Not Applicable.
VAPOUR PRESSURE:	Not Applicable.
VAPOUR DENSITY (AIR=1):	Not Applicable.
% VOLITILES:	Not Applicable.
SPECIFIC GRAVITY (WATER=1):	1.01 @ 15°C
SOLUBILITY IN WATER (% W/W):	Soluble.
AUTO IGNITION TEMPERATURE:	Not Applicable.
PARTITION COEFFICIENT N-OCTANOL/WATER:	Not Applicable.
DECOMPOSITION TEMPERATURE:	Not Determined.
VISCOSITY:	Not Applicable.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not Normally Reactive.
CHEMICAL STABILITY:	Normally Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Reacts with acids to form toxic and irritating sulfur dioxide gas.
CONDITIONS TO AVOID:	Avoid elevated temperatures. Temperatures above 900°C cause the rapid evolution of toxic and corrosive sulfur dioxide gas and hazardous residue.
INCOMPATIBLE MATERIALS:	Oxidizers: may cause strong exothermic reactions. Acids: releases sulfur dioxide gas
HAZARDOUS DECOMPOSITION PRODUCTS:	Reaction with acids release sulfur dioxide gas. Sodium sulphide residue forms when product decomposes.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENT(S)	LC50	LD50
Sodium Sulfite	-	Oral (Mouse): 820 mg/kg

ACUTE TOXICITY:	
ORAL LD50:	See Above.
INHALATION LC50:	No Data Available.
DERMAL LD50:	No Data Available.
IRRITANCY:	Mild Irritant.
SENSITIZATION:	No Data Available.
SKIN:	Repeated or prolonged contact may cause irritation. Contact with solutions will cause skin irritation.
EYES:	Mist may irritate the eyes. Solutions will irritate or burn.

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SECTION 11: TOXICOLOGICAL INFORMATION

INHALATION:	Inhalation can irritate the respiratory tract. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals. Possible signs and symptoms of allergic reactions include bronchoconstriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure, and anaphylaxis. Contact with acids releases sulfur dioxide gas which may be harmful or deadly if inhaled.
INGESTION:	May irritate the gastrointestinal tract.
CHRONIC EFFECTS:	May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death.
DELAYED (SUB CHRONIC AND CHRONIC) EFFECTS:	Sodium sulfite has been demonstrated to be mutagenic in microbial systems; however, it is not mutagenic in studies involving insects and is not considered to present a mutagenic threat to multi-cell organisms.
GERM CELL MUTAGENICITY:	Sodium sulfite has been demonstrated to be mutagenic in microbial systems; however, it is not mutagenic in studies involving insects and is not considered to present a mutagenic threat to multi-cell organisms.
CARCINOGENICITY:	None of the ingredients were found on the three OSHA designated carcinogen lists.
REPRODUCTIVE TOXICITY:	No Data Available.
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:	No Data Available.
STOT - REPEAT EXPOSURE:	No Data Available.
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:	No Data Available.
ASPIRATION HAZARD:	No Data Available.
POTENTIAL HEALTH EFFECTS:	No Data Available.
SIGNS AND SYMPTOMS OF EXPOSURE:	No Data Available.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:	No Data Available.										
BIOACCUMULATIVE POTENTIAL:	No Data Available.										
ECOTOXICITY:	<p>The following ecotoxicity data is available for Sodium sulfite:</p> <table border="0"> <tr> <td><i>Daphnia magna</i> (Water Flea) LC50 48 hrs</td> <td>440 mg/L</td> </tr> <tr> <td><i>Gambusia affinis</i> (Western mosquitofish) 96hrs LC50</td> <td>460 mg/L</td> </tr> <tr> <td>Biological Oxygen Demand (BOD)</td> <td>0.12 lb/lb, (instantaneous)</td> </tr> </table> <p>The following ecotoxicity data is available for Sodium sulfate:</p> <table border="0"> <tr> <td><i>D. magna</i> LC50 48hrs</td> <td>2,564 mg/L</td> </tr> <tr> <td>Western Mosquitofish 96hrs LC50</td> <td>3,710 mg/L</td> </tr> </table>	<i>Daphnia magna</i> (Water Flea) LC50 48 hrs	440 mg/L	<i>Gambusia affinis</i> (Western mosquitofish) 96hrs LC50	460 mg/L	Biological Oxygen Demand (BOD)	0.12 lb/lb, (instantaneous)	<i>D. magna</i> LC50 48hrs	2,564 mg/L	Western Mosquitofish 96hrs LC50	3,710 mg/L
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<i>D. magna</i> LC50 48hrs	2,564 mg/L										
Western Mosquitofish 96hrs LC50	3,710 mg/L										
MOBILITY IN SOIL:	No Data Available.										
OTHER ADVERSE EFFECTS:	No Data Available.										

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Dispose of in accordance with applicable Federal, Provincial, and Local regulations.
PACKAGING:	Dispose of in accordance with applicable Federal, Provincial, and Local regulations.

Note: The information offered in Section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the *Resource Conservation and Recovery Act* (RCRA) classification and the proper disposal method.

SECTION 14: TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG):	Not Regulated
United States (US) Department of Transportation (DOT):	Not Regulated.

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SECTION 14: TRANSPORT INFORMATION

UNITED NATIONS (UN) NUMBER:	Not Applicable.
TRANSPORT HAZARD CLASS:	Not Applicable.
PACKING GROUP:	Not Applicable.
PROPER SHIPPING NAME:	Not Applicable.
SPECIAL SHIPPING INSTRUCTIONS:	Not Applicable.

SECTION 15: REGULATORY INFORMATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION:	D2B.
HAZARDOUS PRODUCT REGULATIONS (HPR) COMPLIANCE:	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
Canada Canadian Domestic Substances List (DSL) Inventory:	Listed.
UNITED STATES (US) FEDERAL REGULATIONS:	
<i>Superfund Amendments and Reauthorization Act (SARA):</i>	No Ingredients Listed.
<i>Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):</i>	No Ingredients Listed.
<i>US Toxic Substances Control Act (TSCA):</i>	Listed.
US STATE OR LOCAL REGULATIONS:	None Listed.

SECTION 16: OTHER INFORMATION

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.