

PRODUCT: TRIPLE C #700

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

PRODUCT NAME: Triple C #700

CHEMICAL FAMILY: Acrylic Based Terpolymer.

MATERIAL USE: Used as a scale inhibitor and dispersing agent in industrial water treatment programs.

EMERGENCY PHONE NUMBER: (613)-996-6666

SECTION 02: HAZARDS IDENTIFICATION



SIGNAL WORD: WARNING.

HAZARD CLASSIFICATION: Acute Toxicity, Oral - Category 5.
Acute Toxicity, Inhalation - Category 5.
Acute Toxicity, Dermal - Category 2.
Eye Damage/Irritation - Category 2A.

HAZARD STATEMENT: **H303:** May be harmful if swallowed.
H333: May be harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENT: **P264:** Wash contact area thoroughly after handling.
P362: Take off contaminated clothing and wash before reuse.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN or hair: Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P305+P351+P338: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+ P313: If eye irritation persists: Get medical advice/attention.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove person to fresh air and keep in position comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if feeling unwell.
P273: Avoid release to the environment.
P405: Store Locked Up.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container in accordance with local / Provincial / Federal regulations.

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SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS #	WT. %
Terpolymer of Acrylic Acid	40623-75-4	Proprietary
Water	7732-18-5	Proprietary

Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

SECTION 04: FIRST AID MEASURES

IF INHALED:	If safe to do so, remove individual from further exposure. Keep warm and at rest. If cough or other symptoms develop, call doctor/poison center immediately.
IN CASE OF SKIN CONTACT:	Flush with running water for fifteen minutes. If irritation persists, get medical aid.
IN CASE OF EYE CONTACT:	Flush with running water for at least fifteen minutes. If irritation persists, get medical aid.
IF SWALLOWED:	If the product is swallowed, first rinse mouth with water. Call doctor/ physician/poison center immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits, place him/her in recovery position so the vomit does not enter lungs.
PERSONAL PROTECTIVE EQUIPMENT FOR FIRST RESPONDERS:	Gloves and safety goggles are highly recommended.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY:	Not Applicable.
GENERAL HAZARD:	Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.
SUITABLE EXTINGUISHING MEDIA:	Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon oxides, sulphur oxides and nitrogen oxides.
FIRE FIGHTING PROCEDURES:	This product is a non-flammable substance. However, hazardous decomposition and combustion products such as carbon and sulphur oxides are formed if product is burning. Material can splatter above 100°C/212°F. Cool exposed containers with water spray to prevent overheating. Dry residue of the product may also burn.
FIRE FIGHTING EQUIPMENT:	Respiratory and eye protection are required for firefighting personnel. Full protective equipment (bunker gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. Evacuate area and fight fire from safe distance or a protected location. Move fire-exposed containers, if allowable without sacrificing the safety of the firefighters. If possible, firefighters should control run-off water to prevent environmental contamination.
SENSITIVITY TO STATIC DISCHARGE:	Not Sensitive.
SENSITIVITY TO MECHANICAL IMPACT:	Not Sensitive.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	<p>For Small Spill: Safety glasses or chemical splash goggles, chemically resistant gloves (rubber/latex), chemically resistant boots, and any appropriate body protection to minimize direct contact to the skin.</p> <p>For Large Spill: Triple gloves (rubber and nitrile over latex), chemical resistant suit, boots, hard hat, full face mask/an air purifying respirator National Institute for Occupational Safety and Health (NIOSH approved). Self-contained breathing apparatus must be worn in situations where fumigant gas generation and low oxygen levels are a consequence of contamination from the leak.</p>
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SECTION 06: ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:	Water spill: use appropriate containment to avoid run off or release to sewer or other waterways. Land spill: use appropriate containment to avoid run off or release to ground. General precaution: remove containers of strong acid and alkali from the release area.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:	For Small Spill: In the event of a small spill, the leak should be contained with an absorbent pad and placed in a properly labeled waste disposal container immediately. Clean the spill area with water. Do not let chemical/waste enter the environment. For Large Spill: In the event of a large spill, contain the spill immediately and dispose according to Provincial, Federal, and local hazardous waste regulation. Do not let chemical/waste enter the environment.
RELEASE NOTES:	If spill could potentially enter any waterway, including intermittent dry creeks, contact local authorities.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only! Keep away from sources of ignition. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective equipment before entering eating areas.
CONDITIONS FOR SAFE STORAGE:	Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Keep product isolated from incompatible materials/conditions such as freezing temperatures. Empty containers retain vapor and material residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. Do not store with acids, alkalis, and oxidizing agents. Keep away from food, drink and animal feeding.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT(S)	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	REL
Terpolymer of Acrylic Acid	NA	NA	NA	NA	NA

Definitions:

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

ENGINEERING CONTROLS:	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
EYE/FACE PROTECTION:	Wear safety glasses with side shields or goggles when handling this material. OSHA Standard - 29 CFR 1910.133 or ANSI Z87.1- 2010.
SKIN AND BODY PROTECTION:	Avoid direct contact with skin. Wear chemically resistant gloves, apron, boots or whole bodysuit when handling this product. OSHA Standard - 29 CFR (Code of Federal Regulations) 1910.138.

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SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Avoid breathing vapor or mist. Use NIOSH approved respiratory protection equipment when air borne exposure is excessive. If used, full face-piece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. OSHA Standard CFR 1910.134.
WORK HYGIENIC PRACTICES:	Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Clear/Colourless to Pale Yellow Liquid.
ODOUR:	Characteristic.
ODOUR THRESHOLD:	Not Available.
pH:	2.1 - 2.8 @ 20°C.
MELTING POINT/FREEZING POINT:	< 0°C.
BOILING POINT:	>100°C.
FLASH POINT, METHOD:	Above 100°C/212°F.
EVAPORATION RATE:	Not Available.
FLAMMABILITY (SOLIDS AND GASES):	Not Flammable.
UPPER FLAMMABLE LIMIT (% BY VOL):	Not Applicable.
LOWER FLAMMABLE LIMIT (% BY VOL):	Not Applicable.
VAPOUR PRESSURE:	3.2 kPa @ 25°C (Water).
VAPOUR DENSITY (AIR=1):	Not Available.
SPECIFIC GRAVITY (WATER=1):	1.15 g/cm ³ (Min.)
SOLUBILITY IN WATER (% W/W):	Soluble in Water.
AUTO IGNITION TEMPERATURE:	Not Applicable.
PARTITION COEFFICIENT N-OCTANOL/WATER:	Not Available.
DECOMPOSITION TEMPERATURE:	Not Applicable.
VISCOSITY:	100-300 mPas (Dynamic @ 20°C)

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	The product is stable under normal ambient conditions of temperature and pressure.
POLYMERIZATION:	Polymerization may occur at higher temperatures.
CONDITIONS TO AVOID:	Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants. Protect from freezing. Keep away from direct sunlight.
INCOMPATIBLE MATERIALS:	Strong alkalis, amines, nitrites, sulfites, reducing agents, and oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may yield acrylic monomers and hydrocarbons. Fire/burning of the product may yield toxic fumes of carbon oxides and sulphur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data: Toxicity studies have not been conducted on this material and no toxicological information was obtained in a comprehensive search of available scientific literature. However, data on a similar product (Polyacrylic acid - CAS 9003-01-4) are summarized below.

INGREDIENT(S)	LC50	LD50
Polyacrylic Acid	Dermal > 5000 mg/kg (<i>Leporidae sp.</i> (Rabbit))	Oral > 5000 mg/kg (Rat)
		Inhalation (No Data Available)

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SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	
ORAL LD50:	See Above.
INHALATION LC50:	See Above.
DERMAL LD50:	See Above.
SKIN CORROSION / IRRITATION:	Skin: Irritant to the skin and mucous membranes.
SERIOUS EYE DAMAGE / EYE IRRITATION:	Eyes: Irritating to the eyes.
RESPIRATORY OR SKIN SENSITIZATION:	No Data Available.
GERM CELL MUTAGENICITY:	No Data Available.
CARCINOGENICITY:	No Data Available.
REPRODUCTIVE TOXICITY:	No Data Available.
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:	No Data Available.
STOT - REPEAT EXPOSURE:	No Data Available.
LONG TERM EXPOSURE HEALTH EFFECTS:	Eyes: Can cause severe irritation to the eyes if exposure if prolonged. Skin: Can cause significant irritation if exposure is prolonged. Inhalation: Can lead to coughing, nasal congestion, tightness of chest and /or shortness of breath. Ingestion: Can lead to possible nausea or vomiting.
ASPIRATION HAZARD:	No Data Available.
ROUTS OF EXPOSURE:	Eyes, Skin, and Inhalation.

SECTION 12: ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination. Do not allow undiluted product or large quantities to enter ground water or sewage systems. Release of large amounts of this product into aquatic environments may lead to a decrease in pH, which can be harmful to aquatic organisms.

BIOACCUMULATIVE POTENTIAL:	No Data Available.
BIODEGRADABILITY:	This product is partially biodegradable. Significant residue remains.
MOBILITY IN SOIL:	No Data Available.
AQUATIC ECOTOXICITY:	EC50 <i>Daphnia Magna</i> (Water Flea) 48h >1,000 mg/L.
OTHER ADVERSE EFFECTS:	No Data Available.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations. For larger spills, contain material and call local authorities for emergency assistance.
PRODUCT DISPOSAL:	Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable local, Provincial and Federal laws, regulations and product characteristics at time of disposal.
PACKAGING:	Contaminated container should be labeled and disposed in accordance to local, Provincial and Federal laws and regulations.

SECTION 14: TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG):	Not Regulated.
United States (US) Department of Transportation (DOT):	Not Regulated.
International Maritime Dangerous Goods (IMDG):	Not Regulated.
International Air Transport Association (IATA):	Not Regulated.

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SECTION 14: TRANSPORT INFORMATION

UNITED NATIONS (UN) NUMBER: None.
 TRANSPORT HAZARD CLASS: None.
 PACKING GROUP: None.
 PROPER SHIPPING NAME: Not Regulated.
 SPECIAL SHIPPING INSTRUCTIONS: None.

SECTION 15: REGULATORY INFORMATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION: This is not a WHMIS controlled product.

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.

UNITED STATES (US) FEDERAL REGULATIONS:

Superfund Amendments and Reauthorization Act (SARA): Section 313: No components of this product are listed.
 Section 311/312: Acute Health Hazard.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): Acrylic Acid, Reportable Quantities (RQ) - 5000 lbs. RCRA Waste Code: U008 (2-propanoic acid).

US Toxic Substances Control Act (TSCA): All components of this product are listed on the TSCA inventory.

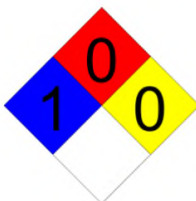
SECTION 16: OTHER INFORMATION

Hazardous Materials Identification System (HMIS) Hazard ID:

HEALTH	1
FLAMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

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.