



PRODUCT: TRIPLE C #321

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: T DONOVAN & SON (1997) LTD.

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PRODUCT NAME: Triple C #321
CHEMICAL FAMILY: Orthophosphates

MOLECULAR WEIGHT: 1560

MATERIAL USE: Water Treatment: To precipitate hardness salts and to adjust alkalinity in boiling

water. Corrosion control.

EMERGENCY PHONE NUMBER: (613)-996-6666

SECTION 02: HAZARDS IDENTIFICATION





SIGNAL WORD: DANGER.

HAZARD CLASSIFICATION: Skin Irritation - Category 2.

Serious Eye Damage - Category 1.

Specific Target Organ Toxicity (STOT) Single Exposure - Category 3: Respiratory

Tract Irritation.

HAZARD STATEMENT: H315: Causes skin irritation.

H318: Causes serious eye damage. **H335:** May cause respiratory irritation.

PRECAUTIONARY STATEMENT: P260: Do not breathe dust.

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection. **P304+P340:** IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P321: Specific treatment, see supplemental first aid information.
P362: Take off contaminated clothing and wash before reuse.
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. **P310:** Immediately call a POISON CENTER or doctor/physician.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

OTHER HAZARDS: Under United States Regulations (29 CFR (Code of Federal Regulations) 1910.1200

- Hazard Communication Standard), this product is considered hazardous.





: COMPOSITION/INFORMATIO	N ON INGREDIENTS	
CAS#	WT. %	
ate 10101- 89-0	100	
er.		
SECTION 04: FIRST AID MEAS		
Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.		
In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash contaminated clothing before reuse. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention.		
In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If the physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes		
If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.		
Refer to Section 11 - Toxicological	I Information.	
All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.		
Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Keep victim warm and quiet.		
ECTION 05: FIRE FIGHTING ME	EASURES	
Not Flammable.		
	ng media suitable for surrounding fire.	
Unusual Fire and Explosion Hazar corrosive fumes are emitted.	ds: Not combustible. Under fire conditions, toxic,	
 Structural firefighters' protective 	ontained breathing apparatus (SCBA). Ye clothing provides limited protection in fire stive in spill situations where direct contact with the	
	CAS # ate 10101-89-0 Dec. SECTION 04: FIRST AID MEA Move victim to fresh air. Administic respiration if victim is not breathing inhaled the substance; give artificit equipped with a one-way valve or medical attention. In case of contact with substance, least 20 minutes. Remove and isc clothing before reuse. For minor siskin. Get medical attention. In case of contact with substance, least 15 minutes. Seek immediate ophthalmologist. If the physician is be continued for an additional 15 raphysician and the eye needs to both eyes. If swallowed give 2-3 glasses of wanything by mouth to an unconsciummediate medical attention. Do rispontaneously. To prevent aspiral head lower than waist. If vomiting further dilute the chemical. Refer to Section 11 - Toxicologica All treatments should be based on patient. Consideration should be materials other than this product in Call 911 or emergency medical set the material(s) involved and take provided in the material of	

control water later.

Dike area to prevent runoff and contamination of water sources. Dispose of fire

Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

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SECTION 06: ACCIDENTAL RELEASE MEASURES			
PERSONAL PRECAUTIONS:	Wear appropriate protective gear for the situation to avoid exposure. Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.		
EMERGENCY PROCEDURES:	Keep unauthorized personnel away.		
ENVIRONMENTAL PRECAUTIONS:	Runoff from fire control or dilution water may cause pollution. Prevent entry into waterways, sewers, basements or confined areas.		
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:	Sweep or vacuum up and place in an appropriate closed container. Clean up residual material by washing area with water and detergent. Collect washings for disposal.		
REFERENCE TO OTHER SECTIONS:	Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.		

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use only with adequate ventilation. Handle and open container with care. Wear

appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Avoid direct or prolonged contact with skin and eyes. Do not ingest.

Potentially deadly carbon monoxide gas can form in enclosed areas or tanks when alkaline products contact materials that contain sugars. Wash thoroughly with soap

and water after handling and before eating, drinking, or using tobacco.

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed. Keep away from incompatible materials. Store in an

area that is room temperature, well-ventilated and isolated from all toxic and harmful

substances.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT(S)	ACGIH TLV		OSHA PEL		NIOSH	
INGREDIENT(S) TW		STEL	TWA	STEL	REL	
Trisodium phosphate Dodecahydrate	-	10 mg/m ³ STEL	-	-	-	

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.

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.

RESPIRATORY PROTECTION: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European

Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved

respirator if exposure limits are exceeded or symptoms are experienced.

EYE/FACE PROTECTION: Wear eye protection. An emergency eye wash must be readily accessible to the

work area.

HANDS / SKIN AND BODY PROTECTION: • Wear protective gloves -Gloves.

· Wear protective clothing.

ENVIRONMENTAL EXPOSURE

CONTROLS:

Follow best practice for site management and disposal of waste.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid White Granules.

ODOUR: None.

ODOUR THRESHOLD: No Data Available.

pH: 11.8.





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ASPIRATION HAZARD:

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

MELTING POINT/FREEZING POINT: No Data Available. **BOILING POINT:** No Data Available. **FLASH POINT, METHOD:** No Data Available. **EVAPORATION RATE:** No Data Available. FLAMMABILITY (SOLIDS AND GASES): Not Flammable. **UPPER FLAMMABLE LIMIT (% BY VOL):** Not Flammable. LOWER FLAMMABLE LIMIT (% BY VOL): Not Flammable. **EXPLOSIVE PROPERTIES:** Not Explosive. **OXIDIZING PROPERTIES:** Not an Oxidizer. **VAPOUR PRESSURE:** No Data Available. **VAPOUR DENSITY (AIR=1):** No Data Available. **SPECIFIC GRAVITY (WATER=1):** No Data Available.

SOLUBILITY IN WATER (% W/W): Soluble.

AUTO IGNITION TEMPERATURE:

PARTITION COEFFICIENT
N-OCTANOL/WATER:
DECOMPOSITION TEMPERATURE:

VISCOSITY:

No Data Available.

No Data Available.

No Data Available.

SECTION 10: STABILITY AND REACTIVITY			
REACTIVITY:	No dangerous reaction known under conditions of normal use.		
CHEMICAL STABILITY:	Stable.		
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization will not occur.		
CONDITIONS TO AVOID:	Dusting conditions. Moisture. Incompatible materials.		
INCOMPATIBLE MATERIALS:	Strong acids, magnesium.		
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of phosphorus. Oxides of sodium.		

PRODUCTS.				
SECTION 11: TOXICOLOGICAL INFORMATION				
INGREDIENT(S)		LC50	LD50	
Phosphoric Acid, Trisodium Salt, Dodecahydrate FCC		-	Ingestion/Oral-Rat - 7400 mg/kg	
ACUTE TOXICITY				
ORAL LD50:	See above.			
INHALATION LC50:	No Data Available.			
DERMAL LD50:	No Data Available.			
SKIN CORROSION / IRRITATION:	Irritation: Leporidae sp. (Rabbit) - non-specific severity.			
SERIOUS EYE DAMAGE / EYE IRRITATION:	Irritation: Eye-Rabbit - Moderate irritation.			
RESPIRATORY OR SKIN SENSITIZATION:	No Data Available.			
GERM CELL MUTAGENICITY:	No Data Available),		
CARCINOGENICITY:	This product does not contain any ingredient designated by International Agency for Research on Cancer (IARC), National Toxicology Program (NTP), ACGIH or OSHA as probable or suspected human carcinogens.			
REPRODUCTIVE TOXICITY:	No Data Available.			
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:	OSHA HCS 2012 • STOT Single Exposure 3: Respiratory Tract Irritation.			
STOT - REPEAT EXPOSURE:	No Data Available).		

Not Relevant.



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SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

Acute (Immediate) - May cause respiratory irritation. INHALATION:

Chronic (Delayed) - No Data Available.

SKIN: Acute (Immediate) - Causes skin irritation.

Chronic (Delayed) - No Data Available.

EYE: Acute (Immediate) - Causes serious eye damage.

Chronic (Delayed) - No Data Available.

INGESTION: Acute (Immediate) - Causes corrosion, burns to mouth and esophagus, abdominal

pain, chest pain, nausea, vomiting, diarrhea, seizures. Aspiration of the swallowed

or vomited product can cause severe pulmonary complications.

Chronic (Delayed) - No Data Available.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:

TRISODIUM PHOSPHATE DODECAHYDRATE FCC					
DOSAGE	SPECIES	DURATION	RESULTS	EXPOSURE CONDITIONS	
126 mg/L	Water Flea: Daphnia magna	96 Hour(s)	EC50	No Data Available (NDA)	
151 ma/l	Fish: Mosquitofish (Gambusia affinis)	96 Hour(s)	FC50	No Data Available	

PERSISTENCE AND DEGRADABILITY: No specific biodegradation test data located. While the alkalinity of this material is

readily reduced in natural waters, the resulting phosphate may persist indefinitely or

incorporate into biological systems.

BIOACCUMULATIVE POTENTIAL: No data found for product. **MOBILITY IN SOIL:** No data found for product.

OTHER ADVERSE EFFECTS: No data found for product.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of content and/or container in accordance with local, regional, national,

and/or international regulations.

PACKAGING: Dispose of content and/or container in accordance with local, regional, national,

and/or international regulations.

SECTION 14: TRANSPORT INFORMATION

Transportation of Dangerous Goods

Not Regulated.

US Department of Transportation (DOT):

Regulated.

International Maritime Dangerous Goods

Not Regulated.

(IMDG):

International Air Transport Association

Not Regulated. (IATA):

UNITED NATIONS (UN) NUMBER:

3077.

TRANSPORT HAZARD CLASS:

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PACKING GROUP: PROPER SHIPPING NAME:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Sodium

Phosphate, Tribasic).

SPECIAL SHIPPING INSTRUCTIONS:

None.

REGULATION SPECIFIC INFORMATION:

In Accordance with US DOT:

This product is regulated for transportation because it contains a reportable quantity of 5000 lbs (2270kg). "Hazardous substances" in packages less than the reportable quantity (RQ) are not hazardous substances by US DOT definition (49 CFR 171.8).

SECTION 15: REGULATORY INFORMATION

WORKPLACE HAZARDOUS MATERIALS

INFORMATION SYSTEM (WHMIS)

Corrosive - E.

CLASSIFICATION:

Other Toxic Effects - D2B.



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SECTION 15: REGULATORY INFORMATION

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.

INVENTORY:

INGREDIENT(S)	Canada Disclosure List (DSL)	Canada Non-Disclosure List (NDSL)	US Toxic Substances Control Act (TSCA)
Phosphoric Acid, Trisodium Salt, Dodecahydrate	No	No	No
Trisodium Phosphate Anhydrous	Yes	No	Yes

Canadian Environmental Protection Act

(CEPA) - Priority Substances List:

Not Listed.

UNITED STATES (US) FEDERAL

REGULATIONS:

OSHA Hazcom Standard Rating: Not Listed.

Comprehensive Environmental

Response, Compensation and Liability

Not Listed.

Act (CERCLA):

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.