

PRODUCT: TRIPLE C # 840

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: T DONOVAN & SON (1997) LTD.
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PRODUCT NAME: Triple C # 840

CHEMICAL FAMILY: Aromatic Petroleum Distillates.

MATERIAL USE: Fuel Oil Additive.

EMERGENCY PHONE NUMBER: (613)-996-6666

SECTION 02: HAZARDS IDENTIFICATION

SIGNAL WORD: WARNING.

HAZARD CLASSIFICATION: Aspiration Hazard - Category 1.
Eye Irritation - Category 2.
Skin Irritation - Category 2.
Flammable Liquids - Category 3.
Specific Target Organ Toxicity (STOT) Single Exposure - Category 3.

HAZARD STATEMENT: **H227:** Combustible liquid.
H315: Causes skin irritation.
H320: Causes eye irritation.
H336: May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENT: **P264:** Wash thoroughly after handling.
P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P242: Use only non-sparking tools.
P240: Ground/bond container and receiving equipment.
P233: Keep container tightly closed.
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.
P331: Do NOT induce vomiting.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P362: Take off contaminated clothing and wash before reuse.
P370 + P378: In case of fire: Use dry chemical, carbon dioxide, sand, earth, water spray or regular foam for extinction.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P314: Get medical advice/attention if you feel unwell.
P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P501: Dispose of contents/container to hazardous or special waste collection point.

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SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS #	WT. %
Hexanoic Acid, 2-Ethyl-, Manganese Salt (Manganese Carboxylate)	15956-58-8	10 - 15
Naphthenic Acids, Copper Salts (Copper Naphthenate)	1338-02-9	10 - 15
Solvent Naphtha	68334-30-5	70 - 80

Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

SECTION 04: FIRST AID MEASURES

IN CASE OF SKIN CONTACT:	Immediately flush skin with plenty of water for a minimum of 15 minutes. Remove contaminated clothing. Wash clothing before reuse. If irritation persists, consult a physician.
IN CASE OF EYE CONTACT:	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Consult a physician if irritation continues.
IF INHALED:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and obtain medical attention.
IF SWALLOWED:	Get immediate medical attention. Aspiration hazard. Do not induce vomiting or give anything by mouth because this material can enter lungs and cause Chemical Pneumonitis. Do not induce vomiting unless instructed to do so by poison center or physician.
GENERAL INFORMATION:	In the event of an incident involving this product, ensure that medical authorities are provided a copy of this Safety Data Sheet. Treat symptomatically.

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use alcohol foam, carbon dioxide, or dry chemical foam. In case of larger fires, water spray should be used.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon. Other potentially toxic fumes.
SPECIAL FIRE FIGHTING PROCEDURES:	Unopened containers may rupture in a fire situation. During fire, water spray can scatter flames and should be used by experienced firefighters. Self-Contained Breathing Apparatus (SCUBA) should be used when firefighting. Wear appropriate protective equipment as conditions warrant. Stop spill/leak if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk.

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL:	Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Remove all sources of ignition. Ventilate area. Dike area to prevent spreading. Stop leak if safe to do so. Prevent runoff into drains, sewers and other waterways. Cover spill area with suitable absorbent material. Shovel all absorbent material into an appropriate salvage drum. Wash area with soap and water.
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SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Avoid all skin and eye contact. Avoid breathing vapours or mist. Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Keep away from heat, sparks and open flames (avoid ignition sources). During processing material should be handled in well-ventilated areas and care.
CONDITIONS FOR SAFE STORAGE:	Store in a cool, dry and well ventilated area. Store in closed containers away from extreme heat, flame or strong oxidizing agents. SHELF LIFE: Five (5) years from date of manufacture.

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SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC

C8	C9	OTHERS
Xylenes TWA (ACGIH): 100 ppm STEL (ACGIH): 150 ppm BEI (ACGIH): methylhipuric acid in urine: 1,5 g/g creatinine REL-TWA (NIOSH): 100 ppm REL-STEL (NIOSH): 150 ppm PEL-TWA (OSHA): 100 ppm PEL-STEL (OSHA): 150 ppm	Cumene TWA (ACGIH): 50 ppm REL-TWA (NIOSH): 50 ppm [skin] PEL-TWA (OSHA): 50 ppm [skin] Trimethylbenzene (All Isomers) TWA (ACGIH): 25 ppm REL-TWA (NIOSH): 25 ppm PEL-TWA (OSHA): 25 ppm	Naphtha REL-TWA (NIOSH): 350 mg/m ³ PEL-TWA (OSHA): 2000 mg/m ³

Definitions:

ACGIH - American Conference of Governmental Industrial Hygienists.	RELs - Recommended Exposure Limits.
BEI - Biological Exposure Index	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:	Use local exhaust or general room ventilation sufficient to prevent overexposure.
EYE/FACE PROTECTION:	Chemical safety goggles and full face shield if a splash hazard exists.
SKIN AND BODY PROTECTION:	
GLOVES:	Impervious gloves must be worn.
CLOTHING:	Wear adequate protective clothing to prevent skin contact.
FOOTWEAR:	Wear safety boots per local regulations.
RESPIRATORY PROTECTION:	In case of insufficient ventilation, wear suitable respiratory equipment. Be sure to use NIOSH-approved respirator or equipment. Do not exceed the use limits of the respirator.
OTHER/TYPE:	Eye wash station and emergency shower should be available.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Green/Brown Liquid.
ODOUR:	Mineral Spirits.
ODOUR THRESHOLD:	Not Available.
pH:	Not Available.
MELTING POINT/FREEZING POINT:	Ranges from -95.5 to -43.8°C.
BOILING POINT:	162.0-175.5°C
FLASH POINT, METHOD:	47.5°C
EVAPORATION RATE:	No Data Available.
UPPER FLAMMABLE LIMIT (% BY VOL):	No Data Available.
LOWER FLAMMABLE LIMIT (% BY VOL):	No Data Available.
VAPOUR PRESSURE:	2.80 to 4.05 hPa at 25°C
VAPOUR DENSITY (AIR=1):	No Data Available.
SPECIFIC GRAVITY (WATER=1):	0.861 to 0.881 g/cm ³ at 25°C
SOLUBILITY IN WATER (% W/W):	Soluble in organic solvents. Ranges from 40 to 75 mg/L in water at 25°C.
AUTO IGNITION TEMPERATURE:	280 - 470 °C at hPa.
PARTITION COEFFICIENT N-OCTANOL/WATER:	Ranges from 3.42 to 3.90 (at 25°C)
DECOMPOSITION TEMPERATURE:	Not Available.
VISCOSITY:	1.265 cSt @ -20°C.

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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Keep away from heat, sparks and open flame.
CHEMICAL STABILITY:	Stable at normal temperatures and pressures.
POSSIBILITY OF HAZARDOUS REACTIONS:	Will Not Occur.
INCOMPATIBLE MATERIALS:	Oxidizing Agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	See Section 5, Hazardous Combustion Products.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (Solvent Naphtha (Petroleum), Light Aromatic):

ORAL LD50:	>14000 mg/kg (Rat).
INHALATION LC50:	6,000 - 10,000 mg/m ³ (C9 Aromatic Naphtha) (Rat) (mg/L) - 4h.
DERMAL LD50:	>2000 mg/kg (<i>Leporidae sp.</i> (Rabbit)).
ROUTE OF EXPOSURE:	Skin contact, eye contact, inhalation, and ingestion.
EFFECTS OF ACUTE EXPOSURE:	Causes skin irritation. Causes serious eye irritation. Vapours or mists may cause respiratory tract irritation. Inhalation overexposure may lead to central nervous system depression, producing effects such as dizziness, headache, confusion, incoordination, nausea, weakness, and unconsciousness.
EFFECTS OF CHRONIC EXPOSURE:	Chronic respiratory disorders, skin disorders, liver and kidney disorders. Causes target organ or system damage. (e.g., lung, nervous system, blood disorders, liver, kidney, immune system, cardiovascular system, thyroid, testicular, ovarian, ect.).
CARCINOGENICITY OF MATERIAL:	Although the components of this product are not listed by International Agency for Research on Cancer (IARC), National Toxicology Program (NTP) or regulated as a carcinogen by OSHA, this product mixture carries some risk in causing cancer.
REPRODUCTIVE EFFECTS:	None.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	No Information Available.
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SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Dispose of waste in accordance with all applicable Federal, Provincial, and local regulations. Empty containers retain product residue, observe all precautions for product. Decontaminate containers prior to disposal. Do not heat or cut empty containers with electric or gas torch.
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SECTION 14: TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG):	Regulated.
United States (US) Department of Transportation (DOT):	Regulated.
International Maritime Dangerous Goods (IMDG):	Regulated.
International Air Transport Association (IATA):	Regulated.
UNITED NATIONS (UN) NUMBER:	1993
TRANSPORT HAZARD CLASS:	3
PACKING GROUP:	III
PROPER SHIPPING NAME:	FLAMMABLE LIQUID, N.O.S. (Contains Petroleum Distillates) - Ltd Qty 5L.
SPECIAL SHIPPING INSTRUCTIONS:	None.
REGULATION SPECIFIC INFORMATION:	
In Accordance with TDG:	This product is regulated when transported in a large means of containment (>450 L).

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SECTION 14: TRANSPORT INFORMATION

In Accordance with US DOT: 49CFR (Code of Federal Regulations) 173.150 provides an exception to the requirements of subsection 172.101 flammable liquids in Packing Group III and combustible liquids, inner packaging's not over 454 L (120 gallons) net capacity each, packaged in a strong outer packaging. Otherwise this product is classified as UN1993 - Combustible liquid N.O.S. (Contains petroleum distillates) - Class 3 - Packing Group III.

MARINE POLLUTANT: Potential Marine Pollutant.

SECTION 15: REGULATORY INFORMATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION: B3, 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.

Canadian Environmental Protection Act (CEPA) Status: All components of this product are listed on the Domestic Substance List (DSL).

UNITED STATES (US) FEDERAL REGULATIONS:

OSHA HazCom Standard Rating: This product is considered hazardous under the federal OSHA Hazard Communication Standard.

US Toxic Substances Control Act (TSCA): All components are listed on TSCA.

SECTION 16: OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) Hazard ID:

HEALTH	2
FLAMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	X

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.