

PRODUCT: TRIPLE C # 562

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Triple C # 562

MATERIAL USE: Closed System Inhibitor Treatment. For industrial and institutional use only.

EMERGENCY PHONE NUMBER: (613)-996-6666

SECTION 02: HAZARDS IDENTIFICATION



SIGNAL WORD: DANGER.

HAZARD CLASSIFICATION: Acute Toxicity, Oral - Category 4.
Acute toxicity, Inhalation (Dusts/Mists) - Category 3.
Skin Corrosion/Irritation - Category 1B.
Serious Eye Damage/Eye Irritation - Category 1.
Carcinogenicity - Category 1B.
Oxidizing Liquids - Category 2.

HAZARD STATEMENT: **H302:** Harmful if swallowed.
H330: Fatal if inhaled.
H314: Causes severe skin burns and eye damage.
H350: May cause cancer.
H272: May intensify fire; oxidizer.

PRECAUTIONARY STATEMENT: **P201:** Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P281: Use personal protective equipment as required.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P260: Do not breathe dust /fume /gas /mist /vapours /spray.
P210: Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
P310: Immediately call a POISON CENTER or doctor/physician.
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.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310: Immediately call a poison center or doctor/physician.
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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P370 + P378: In case of fire: Use Carbon Dioxide (CO₂), dry chemical, or foam for extinction.

P405: Store locked up.

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

P501: Disposal of contents/container to an approved waste disposal plant.

Toxic to aquatic life with long lasting effects.

OTHER HAZARDS:

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS #	WEIGHT %
Sodium Nitrite	7632-00-0	1-10*
Sodium Molybdate	7631-95-0	1-10

* If the Weight - % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

SECTION 04: FIRST AID MEASURES

GENERAL ADVICE:	Immediately call a poison center or doctor/physician.
IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply CPR if needed. Immediately call a poison center or doctor/physician.
IN CASE OF SKIN CONTACT:	Wash with soap and water. If irritation persists, call a physician or poison control center.
IN CASE OF EYE CONTACT:	Immediately flush with plenty of water for at least 15 minutes while holding eyelids open. Immediately call poison center or doctor/physician.
IF SWALLOWED:	Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.
THE MOST IMPORTANT SYMPTOMS AND EFFECTS, WHETHER ACUTE OR DELAYED:	Harmful if swallowed. Fatal if inhaled. Causes severe skin burns and eye damage. May cause cancer.
NOTES TO PHYSICIAN	Treat Symptomatically.

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Water, Foam, or CO ₂ .
HAZARDOUS COMBUSTION PRODUCTS:	When strongly heated, as in a fire, this product may produce carbon dioxide, carbon monoxide and oxides of nitrogen.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:	This product is a water solution of sodium nitrite, a strong oxidizer. Residue left after product evaporation may give off nitrogen oxide fumes or may cause other materials to spontaneously ignite or burn more vigorously than normal.
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA (Mine Safety and Health Administration) /NIOSH (National Institute for Occupational Safety and Health) (approved or equivalent) and full protective gear.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Use personal protective equipment as required.
ENVIRONMENTAL PRECAUTIONS:	No Information Available.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:	Containment: Prevent further leakage or spillage if safe to do so. Clean-up: Eliminate all sources of ignition. Clean up with a non-flammable absorbent such as clay or vermiculite and place in a labeled, closed metal container for proper disposal.

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SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke with using this product. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection.

CONDITIONS FOR SAFE STORAGE: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep away from flammables. Store away from incompatible materials (ammonia, amines, sulfites, and oxygen scavengers).

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

INGREDIENT(S)	ACGIH TLV		OSHA PEL		NIOSH IDLH
	TWA	0.5 mg/m ³ Mo respirable fraction.	TWA: TWA:	0.5 mg/m ³ Mo (vacated). 0.5 mg/m ³ Mo respirable fraction.	
Sodium Molybdate					1000 mg/m ³ Mo.

Definitions:

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

ENGINEERING CONTROLS: Provide adequate ventilation and local exhaust is generally adequate.

EYE/FACE PROTECTION: Chemical safety goggles are recommended.

SKIN AND BODY PROTECTION: Chemical resistant gloves are recommended. Long sleeve shirt and long pants.

RESPIRATORY PROTECTION: Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.

OTHER/TYPE: Handle in accordance with good industrial hygiene and safety practice.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

COLOR/APPEARANCE: Brown Liquid.

ODOUR: Slight, Medicinal Odour.

pH: 11.5-12.5

MELTING POINT/FREEZING POINT: No Information Available.

BOILING POINT: 100°C / 212°F.

FLASH POINT, METHOD: None.

EVAPORATION RATE: ~1.0.

FLAMMABILITY (SOLIDS AND GASES): Liquid-Not Applicable.

UPPER FLAMMABLE LIMIT (% BY VOL): No Information Available.

LOWER FLAMMABLE LIMIT (% BY VOL): No Information Available.

VAPOUR PRESSURE: No Information Available.

VAPOUR DENSITY (AIR=1): No Information Available.

SPECIFIC GRAVITY (WATER=1): 1.12 (Water = 1).

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

PARTITION COEFFICIENT No Information Available.

AUTO IGNITION TEMPERATURE: No Information Available.

DECOMPOSITION TEMPERATURE: No Information Available.

KINEMATIC VISCOSITY: No Information Available.

DYNAMIC VISCOSITY: No Information Available.

EXPLOSIVE PROPERTIES: No Information Available.

OXIDIZING PROPERTIES: No information available.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT: None.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Not reactive under normal conditions.
CHEMICAL STABILITY: Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, hazardous polymerization will not occur.
CONDITIONS TO AVOID: Incompatible Materials.
INCOMPATIBLE MATERIALS: Ammonia, Amines, Sulfites, and Oxygen Scavengers.
HAZARDOUS DECOMPOSITION PRODUCTS: When strongly heated, as in a fire, this product produces carbon dioxide, carbon monoxide and oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

COMPONENT INFORMATION:

INGREDIENT(S)	ORAL LC50	DERMAL LC50	INHALATION LD50
Sodium Nitrite	85 mg/kg (Rat)	-	5.5 mg/L (Rat) 4h
Sodium Molybdate	4 g/kg (Rat) 4000 mg/kg (Rat)	-	>2080 mg/m ³ (Rat) 4h

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

EYE CONTACT: Causes severe eye damage.
SKIN CONTACT: Causes severe skin burns.
INHALATION: Fatal if inhaled.
INGESTION: Harmful if swallowed.
SYMPTOMS: See Section 4 of this SDS for symptoms.

NUMERICAL MEASURES OF TOXICITY: No Information available.

CARCINOGENICITY: May cause cancer.

INGREDIENT(S)	ACGIH	IARC	NTP	OSHA
Sodium Nitrite	-	Group 2A - (Probably Carcinogenic to Humans)	-	X (Present)
Sodium Molybdate	A3 - (Animal Carcinogen)	-	-	-

Definition:

IRAC - International Agency for Research on Cancer.

NTP - National Toxicology Program.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY: No Information Available.
BIOACCUMULATIVE POTENTIAL: No Information Available.
ECOTOXICITY: No Information Available.
MOBILITY: No Information Available.
OTHER ADVERSE EFFECTS: No Information Available.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Disposal should be in accordance with applicable regional, national and local laws and regulations.
CONTAMINATED PACKAGING: Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG): Regulated.
US Department of Transportation (DOT): Regulated.
International Maritime Dangerous Goods (IMDG): Regulated.

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SECTION 14: TRANSPORT INFORMATION

International Air Transport Association (IATA): Regulated.

UNITED NATIONS (UN) NUMBER: 3093

TRANSPORT HAZARD CLASS: 8 (5.1)

PROPER SHIPPING NAME: CORROSIVE LIQUID, OXIDIZING, N.O.S (SODIUM NITRITE, POTASSIUM HYDROXIDE).

PACKING GROUP: II

MARINE POLLUTANT: This material may meet the definition of a marine pollutant.

NOTE: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

SECTION 15: REGULATORY INFORMATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION: CLASS C, D-1B, D-2B, E.

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 DOMESTIC SUBSTANCES LIST (DSL)/ NON-DOMESTIC SUBSTANCES LIST (NDSL): Listed.

UNITED STATES (US) FEDERAL REGULATIONS:

Superfund Amendments and Reauthorization Act (SARA): SARA 313: Sodium Nitrite - Weight 6.5%, Threshold Value 1.0%.

US Toxic Substances Control Act (TSCA): Present.

US STATE OR LOCAL REGULATIONS: Sodium Nitrite is Listed in the following State Regulations:
 New Jersey "Right to Know".
 Massachusetts "Right to Know".
 Pennsylvania "Right to Know".

California Hazardous Waste Status (California Code of Regulations, Title 22 Section 66261.126): Sodium Nitrite - Toxic. Ignitable. Reactive.
 Sodium Molybdate - Toxic.

SECTION 16: OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) Hazard ID:

HEALTH	2
FLAMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	N+P

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

National Fire Protection Association (NFPA): No Information Available.

PREPARED BY: T. Donovan & Son (1997) Ltd.

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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.