## **TETRANITROMETHANE**

7. SHIPPING INFORMATION

CAUTIONARY RESPONSE INFORMATION						
Common Synonyms NCI-C55947 Tetan TNM		Liquid Sinks in water.	Colorless or yellow Pungent			
Keep people away. Avoid contact with vapor or liquid. Evacuate Wear self-contained breathing apparatus and protective clothing and gloves. Shut off ignition sources and call fire department. Notify local health and pollution control authorities.						
Fire	COMBUSTIBLE. May explode when heated. Emits toxic fumes under fire conditions. Wear self-contained breating apparatus and protective clothing. Extinguish with water spray, dry chemical, CO <sub>2</sub> , or foam.					
Exposure	CALL FOR MEDICAL AID. VAPOR May be fatal if inhaled or absorbed through the skin. Irritating to the eyes, nose, throat, and lungs. Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID May be fatal if ingested or absorbed through the skin. Effects may be delayed. Causes eye and skin irritation. IF IN EYES: hold eyelids open, flush with running water for at least 15 minutes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF SWALLOWED: DO NOT INDUCE VOMITING. Keep victim quiet and maintain normal body temperature.					
Water Pollution	Effects of low concentrations on aquatic life are not known. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.					

1. CORRECTIVE RESPONSE ACTIONS 2. CHEMICAL DESIGNATIONS Stop discharge Collection Systems: Pump; Dredge Do not burn CG Compatibility Group: Not listed. 2.1 2.2 Formula: C(NO<sub>2</sub>) Formula: C(NO<sub>2</sub>)<sub>4</sub> IMO/UN Designation: 5.1/1510 DOT ID No.: 1510 CAS Registry No.: 509-14-8 NAERG Guide No.: 143 Standard Industrial Trade Classification: 2.2 2.3 2.4 2.5 2.6 2.7 51140

## 3. HEALTH HAZARDS

3.1 Personal Protective Equipment: Approved respirator, safety goggles, chemical resistant gloves, other protective clothing.

- Symptoms Following: Exposure: Irritating to mucous membranes, upper respiratory tract, nose and eyes. Absorption into the body leads to the formation of methemoglobin which may lead to cyanosis. Onset may be delayed 2 to 4 hours or longer. Central nervous system depressant.
   Treatment of Exposure: EYES: Hold eyelids open and flush with running water for at least 15 minutes. SKIN: Remove contaminated clothing and shoes. Flush affected areas with running water for at least 15 minutes.
   Vert H. W. 1005 remove
- 3.4 TLV-TWA: 0.005 ppm
- 3.5 TLV-STEL: Not listed.

- 3.6 TLV-Ceiling: Not listed.
  3.7 Toxicity by Ingestion: Grade 3; LD<sub>50</sub> = 130 mg/kg (rat)
- 3.8 Toxicity by Inhalation: Currently not available.
   3.9 Chronic Toxicity: May cause cyanosis due to formation of methemoglobin. Damage to heart and eyes. 3.10 Vapor (Gas) Irritant Characteristics: Vapors are moderately irritating such that personnel will not usually tolerate moderate or high concentrations.
- 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may
- cause smarting and reddening of skin. 3.12 Odor Threshold: Currently not available

3.13 IDLH Value: 4 ppm 3.14 OSHA PEL-TWA: 1 ppm

- 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed.
- 3.17 EPA AEGL: Not listed

7.1 Grades of Purity: 98%
7.2 Storage Temperature: Refrigerate
7.3 Inert Atmosphere: Currently not available
7.4 Venting: None
<ul><li>7.5 IMO Pollution Category: Currently not available</li><li>7.6 Ship Type: Currently not available</li></ul>
7.7 Barge Hull Type: Currently not available
The barge num type. Our entry not available
8. HAZARD CLASSIFICATIONS
8.1 49 CFR Category: Oxidizer
8.2 49 CFR Class: 5.1
8.3 49 CFR Package Group:
8.4 Marine Pollutant: No
8.5 NFPA Hazard Classification:
Category Classification Health Hazard (Blue) 4
Flammability (Red)0
Instability (Yellow) 4
8.6 EPA Reportable Quantity: 10 pounds 10
pounds 8.7 EPA Pollution Category: A
8.7 EPA Pollution Category: A 8.8 RCRA Waste Number: P112
8.9 EPA FWPCA List: Not listed
9. PHYSICAL & CHEMICAL
PROPERTIES
9.1 Physical State at 15° C and 1 atm: Liquid
9.2 Molecular Weight: 196.03
9.3 Boiling Point at 1 atm: 259°F = 126°C =
399°K 9.4 Freezing Point: 56°F = 13.5°C = 286.7°K
9.5 Critical Temperature: Currently not available
9.6 Critical Pressure: Currently not available
9.7 Specific Gravity: 1.6380 at 20°C
9.8 Liquid Surface Tension: Currently not available
9.9 Liquid Water Interfacial Tension: Currently not available
9.10 Vapor (Gas) Specific Gravity: 6.76
9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
9.12 Latent Heat of Vaporization: 188 Btu/lb = 104 cal/g = 4.4 X 10 <sup>5</sup> J/kg
9.13 Heat of Combustion: Currently not available
9.14 Heat of Decomposition: Currently not available
9.15 Heat of Solution: Currently not available
9.16 Heat of Polymerization: Currently not
available
9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure: 0.5 psia

4. FIRE HAZARDS

- urrently not
- not available ot available
- psia

## TETRANITROMETHANE

9. SATURATED L	20 IQUID DENSITY	9. LIQUID HEA	21 T CAPACITY	9. LIQUID THERMA	22 L CONDUCTIVITY	9. LIQUID V	23 ISCOSITY
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
68	102.260		C U R R E N T L Y N O T A V A I L A B L E		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE

	.24 'Y IN WATER		25 POR PRESSURE		.26 APOR DENSITY		27 EAT CAPACITY
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	I N S O L U B L E	80 90 100 110 120 130 150 160 170 180 200 210 220 230 230 230 240 250	0.226 0.339 0.487 0.676 0.912 1.202 1.551 1.967 2.457 3.686 4.441 5.299 6.269 7.358 8.575 9.929 11.429		C U R R E N T L Y N O T A V A I L A B L E	25 50 75 100 125 250 250 250 250 250 300 325 350 375 400 425 450 475 525 550 575 600	0.165 0.170 0.175 0.180 0.184 0.189 0.199 0.204 0.208 0.213 0.228 0.233 0.233 0.237 0.237 0.242 0.242 0.242 0.242 0.252 0.257 0.266 0.271 0.276