

TROJAN -- TMETN - METRIOL TRINITRATE
MATERIAL SAFETY DATA SHEET
TROJANNSN: 137500N063276
Manufacturer's CAGE: 7N705
Part No. Indicator: A
Part Number/Trade Name: TMETN - METRIOL TRINITRATE

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General Information
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Company's Name: TROJAN CORP
Company's P. O. Box: 310
Company's City: SPANISH FORK
Company's State: UT
Company's Country: US
Company's Zip Code: 84660
Company's Emerg Ph #: 801-798-8613
Company's Info Ph #: 801-798-8613
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 19JUL89
Safety Data Review Date: 19SEP95
MSDS Serial Number: BYVPL

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: 1,3-PROPANEDIOL, 2-(HYDROXYMETHYL)-2-METHYL-, TRINITRATE
(ESTER); (1,1,1,-TRIMETHYLOLETHANE TRINITRATE (TMETN))
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: TY7270000
CAS Number: 3032-55-1
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

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Physical/Chemical Characteristics
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Appearance And Odor: TRANSPARENT OILY LIQUID, COLORLESS TO LIGHT BROWN;
ODORLESS.
Boiling Point: N/A
Vapor Pressure (MM Hg/70 F): SUPDAT
Vapor Density (Air=1): N/A
Specific Gravity: 1.47 (H*20=1)
Evaporation Rate And Ref: 7.7 X 10⁻⁶ (H*20=1)
Solubility In Water: <0.015% @ 76-140F
Percent Volatiles By Volume: N/A

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Fire and Explosion Hazard Data
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Flash Point: 80.0F,26.7C
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A
Extinguishing Media: WATER; CONFINEMENT OF BURNING TMETN COULD RESULT IN
DETONATION.
Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA AND FULL
PROTECTIVE EQUIPMENT (FP N). EXPLOSION HAZARD EXISTS; FIREMEN SHOULD NOT
APPROACH CLOSER THAN 1200 FEET.
Unusual Fire And Expl Hazrds: TMETN CAN BE INITIATED BY IMPACT, FRICTION
AND ELECTROSTATIC DISCHARGE.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): EXTENDED STORAGE AT TEMPERATURES ABOVE 120F.
Materials To Avoid: STRONG ACIDS, ALKALIES.

Hazardous Decomp Products: TOXIC FUMES OF NITROGEN OXIDES.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

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Health Hazard Data
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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: TOXIC IF INGESTED.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: SEE HEALTH HAZARDS.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: INHAL: REMOVE TO FRESH AIR. SUPPORT BREATHING
(GIVE OXYGEN/ARTIFICIAL RESPIRATION) (FP N). EYES: IMMEDIATELY FLUSH
W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD (FP
ADMINISTER EMETIC; REST.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: SPILLS CAN BE ABSORBED ON SAWDUST WHICH CAN
THEN BE BURNED. CONTAMD EARTH SHOULD BE REMOVED, EXTRACTED W/ACETONE, THE
ACETONE SOLN ABSORBED ON SAWDUST & BURNED & THE EARTH BURIED. TMETN
REMAINING ON SURFS SHOULD BE DECOMPOSED W/SOLN OF (SUPDAT)
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE
AND LOCAL REGULATIONS (FP N).
Precautions-Handling/Storing: EXPLOSIVE A.
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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Control Measures
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Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR
EXPOSURE OF CONCERN (FP N).
Ventilation: NONE SPECIFIED BY MANUFACTURER.
Protective Gloves: RUBBER OR PLASTIC GLOVES.
Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).
Other Protective Equipment: COVERALLS WHICH WILL PROTECT AGAINST SPLASHES
NEEDED; SHOULD BE REPLACED WHEN CONTAMINATED.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Suppl. Safety & Health Data: VP: <1.83 X 10⁻⁴ @ 25C. SPILL PROC: SODIUM
SULFIDE IN A METHANOL-ACETONE MIXTURE. NOTE: THIS REACTION WILL GENERATE
POISONOUS H*2S GAS; GOOD VENTILATION IS NEEDED.

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Transportation Data
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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 19SEP95
Label Date: 06SEP95
Label Status: G
Common Name: TMETN - METRIOL TRINITRATE
Chronic Hazard: NO
Signal Word: DANGER!
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-Severe: X

Reactivity Hazard-Severe: X
Special Hazard Precautions: CLASS A HIGH EXPLOSIVE. ACUTE: TOXIC IF
INGESTED. CHRONIC: NONE LISTED BY MANUFACTURER.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: TROJAN CORP
Label P.O. Box: 310
Label City: SPANISH FORK
Label State: UT
Label Zip Code: 84660
Label Country: US
Label Emergency Number: 801-798-8613