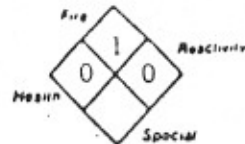


# TAPMATIC

HAZARD RATING  
 4 • EXTREME  
 3 • HIGH  
 2 • MODERATE  
 1 • SLIGHT  
 0 • INSIGNIFICANT



## MATERIAL SAFETY DATA SHEET

PRODUCT NAME TRIPLE E

### Section I

<b>TAPMATIC CORPORATION</b> 1851 Kettering Street • Irvine, CA 92714 (714) 261-9302 • TWX: 910 5951915 • CABLE: Tapco Irvine	Emergency Telephone Number
	CHEMTREC 800/424-9300 24 HRS
Date Prepared November 1, 1987	

### Section II — Hazardous Ingredients/Identity Information

Hazardous Components	CAS NUMBER	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
----------------------	------------	----------	-----------	--------------------------	---

Neither this product nor any of its components is considered "hazardous" under normal conditions of use or in any reasonably foreseeable emergency. Requirements of HAZARD COMMUNICATION STANDARD, 29 CFR 1910, 1200 have been complied with. All components of this formulation are listed in the TOSCA Inventory of Chemical Substances. Neither this product nor any of its components is listed as hazardous by the states of California or Massachusetts or any other.

### Section III — Physical/Chemical Characteristics

Boiling Point	547 °F	Specific Gravity (H <sub>2</sub> O = 1)	.891
Vapor Pressure (mm Hg) at 224 °C	10	Melting Point	14 °C
Vapor Density (AIR = 1)	Not applicable	Evaporation Rate (Butyl Acetate = 1)	< 1
Solubility in Water	Insoluble		

Appearance and Odor Green, oily liquid. Mild fatty odor.

### Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	368 °F (Closed Cup)	Flammable Limits	LEL	UEL
		Not established	----	----

Extinguishing Media Fog, foam, carbon dioxide, dry chemical.

#### Special Fire Fighting Procedures

Treat as oil fire, do not use high pressure hoses.

#### Unusual Fire and Explosion Hazards

None.

## SECTION V - HEALTH HAZARD DATA

DO MAJOR EXPOSURE HAZARD:	IRR: ION <input checked="" type="checkbox"/>	SKIN CONTACT <input type="checkbox"/>	SKIN ABSORPTION <input type="checkbox"/>	INGESTION <input type="checkbox"/>
<p><b>NOTE:</b> Steel products in the natural state do not present an inhalation, injection, or contact hazard. However, operations such as burning, welding, sawing, brazing, or grinding may result in the following effects if exposures exceed permissible limits: Symptoms: <b>ACUTE:</b> Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever." Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after exposure. Dermatitis due to sensitization may occur in some individuals. <b>CHRONIC:</b> Excessive and repeated overexposure of nickel and chromium can cause various forms of dermatitis, inflammation and/or ulceration of upper respiratory tract. Both chromium and nickel have been associated with upper respiratory cancer. Excessive and repeated overexposure of iron fumes can cause siderosis. Excessive and prolonged inhalation of manganese fumes can cause bronchitis, pneumonitis, lack of coordination. Excessive and prolonged overexposure of cobalt may cause an asthma-like disease with cough and dyspnea.</p>				
<p><b>EMERGENCY FIRST AID PROCEDURES</b> In case of excessive exposure, remove to fresh air, administer oxygen and seek physician's assistance.</p>				

## SECTION VI - REACTIVITY DATA

STABLE	UNSTABLE	CONDITIONS TO AVOID
<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A
INCOMPATIBILITY (MATERIALS TO AVOID)		
N/A		
DECOMPOSITION PRODUCTS		
N/A		
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID
	<input type="checkbox"/>	N/A
	WILL NOT OCCUR	
	<input checked="" type="checkbox"/>	

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	N/A
WASTE DISPOSAL METHOD	N/A
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE	N/A

## SECTION VIII - PERSONNEL PROTECTION INFORMATION

RESPIRATORY PROTECTION	For welding, burning, grinding, and cutting operations, local exhaust ventilation should be provided. If fumes or dusts cannot be controlled with exhaust ventilation, an appropriate NIOSH-approved respirator should be used to prevent excessive inhalation exposure.
GLOVES	Gloves may be necessary to prevent skin sensitization and dermatitis.
EYE PROTECTION	Approved safety glasses or goggles should be worn when working with dusty metals.

PREPARED BY

TOOL STEEL SERVICE INC.

WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH ON THIS SHEET ARE BELIEVED TO BE ACCURATE AS OF THE PRESENT DATE, COMPANY MAKES NO REPRESENTATION OR WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM REFL ANDR THEREON.