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Health	Flammability	Reactivity	Other

## MATERIAL SAFETY DATA SHEET

**PRODUCT** TORQUE 'N TENSION CONTROL FLUID **ISSUE DATE** 3/21/83  
**PRODUCT CODE** 17130 **REVISED DATE** 11/29/2001  
**24 Hour Emergency Number: CHEMTREC(1-800-424-9300)** 5

### SECTION 1 :- PRODUCT IDENTIFICATION

**TRADE NAME** TORQUE 'N TENSION CONTROL FLUID  
**CHEMICAL FAMILY** ORGANIC MACHINE TOOL LUBRICANT  
**FORMULA** Proprietary Mixture

**HMIS RATING:**

<b>1</b> Health	<b>0</b> Flammability
<b>0</b> Reactivity	<b>-</b> Other

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High and 4 = Extreme)

### SECTION 2 :- HAZARDOUS INGREDIENTS

MacDermid Inc. has concluded that there are no chemical ingredients in this product which are considered hazardous.

Ingredient	CAS#	By Weight %
Not Applicable	---	0 - 100

### SECTION 3 :- PHYSICAL DATA

<b>DENSITY</b> 8.42 Lb/Gl	<b>FORM</b> Liquid
<b>SPECIFIC GRAVITY</b> 1.01	<b>PH</b> 7.7
<b>FREEZING POINT</b> 32.00 F / 0 C	<b>FLASH POINT</b> not applicable
<b>VAPOR PRESSURE</b> Unknown	<b>VOLATILE %</b> Unknown
<b>CHEMICAL OXYGEN DEMAND (COD)</b> Unknown mg/l	
<b>BIOLOGICAL OXYGEN DEMAND (BOD)</b> Not Determined	
<b>SOLUBILITY IN WATER</b> Emulsifies	
<b>COLOR/ODOR</b> Milky white/mild	

**NOTE:** These physical properties are typical values for this product.

### SECTION 4 :- FIRE AND EXPLOSION DATA

**FLASH POINT** not applicable  
**EXTINGUISHING MEDIA** As appropriate for surrounding material. For massive fires use unmanned hose holder or monitor nozzle. NEVER allow run-off to enter sewers or waterways.  
**UNUSUAL FIRE & EXPLOSION HAZARDS** Wear self-contained breathing apparatus/protective clothing Fight fire from remote locations

### SECTION 5 :- FIRST AID DATA

**EYES** Wash affected eyes under slowly running water for 15 minutes  
 Contact physician immediately

**SKIN** Remove contaminated clothing. Wash skin with soap & water. If irritation develops, contact a physician.

**INGESTION** Give water. Contact physician Notify physician of the nature of ingested product

**INHALATION** Remove the victim to cool uncontaminated area Monitor the patient for respiratory distress

**CAUTION** If unconscious - having trouble breathing - or in convulsions do not induce vomiting or give water.  
Always clean contaminated clothing and gear prior to reuse. NEVER administer anything to an unconscious person.

<b>SECTION 6 :-</b>	<b>HEALTH EFFECTS DATA</b>
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**Primary Route(s) of Exposure : Eye, Skin, Inhalation and Ingestion**

**EYE CONTACT (ACUTE)** Chemical irritation follows initial mechanical irritation Weak and mild eye irritant

**EYE CONTACT (CHRONIC)** No data available.

**SKIN CONTACT (ACUTE)** May cause irritation to the skin.

**SKIN CONTACT (CHRONIC)** Prolonged or repeated contact may cause irritation

**INGESTION (ACUTE)** No data available. Swallowing may cause some nausea.

**INHALATION (ACUTE)** May cause temporary irritation to the mucous membranes.

<b>SECTION 7 :-</b>	<b>PERSONAL PROTECTIVE DATA</b>
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**RESPIRATORY PROTECTION** If there is a value for OSHA-PEL/ACGIH-TLV in section 13 and it is exceeded, it is recommended that a NIOSH approved respirator be used. Consult with your Industrial Hygienist for appropriate cartridge selection and use. See 29CFR 1910.134 for details. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure demand, self contained breathing apparatus is recommended.

**VENTILATION** General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists or aerosols may be released.

**PROTECTIVE EQUIPMENT** Chemically resistant apron, boots and gloves. The availability of a safety shower is recommended. If clothing is contaminated remove clothing and thoroughly wash the affected body area. Launder contaminated clothing before reuse. Safety glasses and/or splash proof goggles, face shields and the availability of an eye wash is recommended.  
Consult with your Safety Professional/Industrial Hygienists for specific information regarding applications at your facility.

These are general recommendations to provide a safe level of protection for

various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility

## **SECTION 8 :- TOXICOLOGY DATA**

### **TOXICITY STUDIES :**

Toxicity studies have not been conducted on this product. However toxicity literature surveys have been conducted on the ingredient(s) in section 2. The results are as follows:

<b>ACUTE ORAL TOXICITY</b>	Unknown
<b>ACUTE DERMAL TOXICITY</b>	Unknown
<b>ACUTE RESPIRATORY TOXICITY</b>	Unknown
<b>OTHER TOXICOLOGICAL EFFECTS</b>	Unknown

Listed as suspected carcinogen by :

<b>IARC</b>	<b>NO</b>	<b>NTP</b>	<b>NO</b>	<b>OSHA</b>	<b>NO</b>
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## **SECTION 9 :- REACTIVITY DATA**

<b>INCOMPATIBILITY</b>	Oxidizers
<b>HAZARD DECOMPOSITION PRODUCTS</b>	Oxides of carbon and nitrogen
<b>STABILITY</b>	Stable
<b>CONDITIONS TO AVOID</b>	Unknown
<b>HAZARDOUS POLYMERIZATION</b>	No hazardous polymerization.

## **SECTION 10 :- SPILLS & DISPOSAL DATA**

In case of Transportation Accidents, call the following 24 hour telephone number : **CHEMTREC** (1-800-424-9300)

<b>SPILL CONTROL AND RECOVERY</b>	Soak up into inert absorbent material. DO NOT use sawdust or other organic materials. Collect for disposal in plastic recovery drum. Flush residue with plenty of water to chemical drain.
<b>DISPOSAL</b>	Dispose of by an approved method at an approved secure facility.

Please ensure that packaging, including drums, are disposed of in a responsible manner and in accordance with federal, and your state's, solid/hazardous waste regulations. You may want to refer to [www.reusablepackaging.org](http://www.reusablepackaging.org) for further disposal guidance.

Due to more restrictive waste disposal regulations, NEVER wastetreat or dispose of material until you check your appropriate local, state, & federal regulations for requirements. Spills may REQUIRE notification to FEDERAL, STATE and/or LOCAL AUTHORITIES.

## **SECTION 11 :- TRANSPORTATION DATA**

<b>DOT PROPER SHIPPING NAME</b>	NON-REGULATED
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HAZARD 0 / NON REGULATED

UN/NA# 000000

DOT REPORTABLE QUANTITY (RQ) NOT APPLICABLE Pkg Grp

IMO NAME GLYCOL MIXTURE 000000

IMO Class/Sub Class 0/NON-REGULATED/0

UN/NA# Pkg Grp

IATA NAME GLYCOL MIXTURE

IATA Cls/Sub Cls NON-REGULATED/0/0

UN/NA# 000000 Pkg Grp

EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT

### SECTION 12 :- GENERAL STORAGE DATA

STORAGE TEMPERATURE : Maximum: 100.00°F 37.7°C Minimum: 32 F 0 C

Material should be stored in the properly sealed original container  
Store in a cool, dry area.

### SECTION 13 :- REGULATORY DATA

The following regulations apply to this product.

#### FEDERAL REGULATIONS

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our evaluation, the following ingredients in this product are subject to this rule:

Chemical Name	CAS#	By Weight%	OSHA-PEL	ACGIH-TLV
Not Applicable	---	0 - 100	N/A	N/A

CERCLA/SUPERFUND, 40 CFR 117, 302/304 :Notification of spills of this product is not required

#### SARA/SUPERFUND AMENDMENTS & REAUTHORIZATION ACT OF 1986 (TITLE III)

##### Sections 302, 311, 312 & 313

#### SECTION 302 : Extremely Hazardous Substances (40 CFR 355)

This product does not contain ingredient(s) as listed.

#### SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372)

This product does not contain ingredient(s) listed under 40 CFR 372.65

#### TOXIC SUBSTANCE CONTROL ACT (TSCA)

The chemical ingredient(s) in this product are listed on the 8(b) Inventory list (40 CFR 372.65)

**RESOURCE CONSERVATION & RECOVERY ACT (RCRA), 40 CFR 261 SUBPARTS C & D**

Please refer to section 10, disposal information for pertinent data.

**TOTAL TOXIC ORGANICS**

This product does not contain ingredient(s) on the list of Total Toxic Organics.

**OSHA PROCESS SAFETY (1910.119)**

This product does not contain ingredient(s) listed in APPENDIX A of 29 CFR 1910.119 of Highly Hazardous Chemicals, Toxics, and Reactives of OSHA process safety management.

**CLEAN AIR ACT**

This product does not contain ingredient(s) listed on the Hazardous Air Pollutants of CAA 40 CFR 112(G).

**OZONE DEPLETING SUBSTANCES**

This product does not contain ingredient(s) listed on Ozone Depleting Substances of CAA 40 CFR 82.

**STATE REGULATIONS**

**CALIFORNIA PROPOSITION 65**

This product complies with with the MSDS and labeling requirements of the Safe Drinking Water and Toxic Enforcement Act of 1986.

This product does not contain ingredient(s) listed on California Prop 65 List.

**MICHIGAN CRITICAL MATERIALS**

This product does not contain ingredient(s) listed on the Michigan Critical Material Register.

**The information listed above does not include all Federal, State, and International regulations. The regulations listed above may change from time to time; it is the users responsibility to keep advised of current regulatory requirements.**

**Prepared by MacDermid Inc. Safety & Regulatory Compliance Department, based upon publicly available reference information.**

**SECTION 14 :- USER NOTIFICATION**

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HERE UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.

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