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MATERIAL SAFETY DATA SHEET

PRODUCT TORQUE'N'TENSION UV FLUID **ISSUE DATE** 03/28/2008
PRODUCT CODE 119932

24 Hour Emergency Number: CHEMTREC(1-800-424-9300)

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME TORQUE'N'TENSION UV FLUID
CHEMICAL FAMILY ORGANIC MIXTURE

NFPA RATING:

1 **Health** 0 **Flammability**
0 **Reactivity** **Other**

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

SECTION 2 HAZARDOUS INGREDIENTS

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

Chemical Name	CAS#	By Weight%
NOT APPLICABLE		100 - 100

SECTION 3 PHYSICAL DATA

DENSITY	8.42 LB/GL	FORM	Liquid
SPECIFIC GRAVITY	1.01	PH	8
FREEZING POINT	32.00 °F 0 °C	FLASH POINT	Not applicable
VAPOR PRESSURE	Not determined	% VOC	Not applicable
BOILING POINT	Not determined	MELTING POINT	32 °F 0 °C
CHEMICAL OXYGEN DEMAND (COD)	Not determined		
BIOLOGICAL OXYGEN DEMAND (BOD)	Not determined		
SOLUBILITY IN WATER	Emulsifies		
COLOR/ODOR	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	Dry chemical, carbon dioxide, foam, water. As appropriate for surrounding material.
UNUSUAL FIRE & EXPLOSION HAZARDS	Unknown. Wear self-contained breathing apparatus/protective clothing.

SECTION 5 FIRST AID DATA

EYES	Flush with water for 15 minutes. Obtain medical aid should irritation occur.
SKIN	Wash contaminated skin with large amounts of soap and water. Remove and isolate contaminated clothing. If irritation develops, get medical aid.
INGESTION	No harmful effects expected. Contact a physician in the event of abdominal distress.
INHALATION	Remove to fresh air. Obtain medical aid if discomfort persists.
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.

SECTION 6 HEALTH EFFECTS DATA

Primary Route(s) of Exposure: Eye, Skin, Inhalation and Ingestion

EYE CONTACT (ACUTE)	May cause temporary irritation to the eyes.
EYE CONTACT (CHRONIC)	There are no known chronic effects associated with this material.
SKIN CONTACT (ACUTE)	Non-irritating to skin.
SKIN CONTACT (CHRONIC)	There are no known chronic effects associated with this material.
INGESTION (ACUTE)	No evidence of harmful effects from available information.
INGESTION (CHRONIC)	There are no known chronic effects associated with this material.
INHALATION (ACUTE)	No effects likely except through misting. May cause irritation of mucous membranes.
INHALATION (CHRONIC)	There are no known chronic effects associated with this material.

SECTION 7 PERSONAL PROTECTIVE DATA

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 positive pressure, 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 Gloves, as necessary, to prevent contact with material. Wear safety glasses or splash proof goggles, face shield. The availability of an eye wash is recommended. 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

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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:

ACUTE ORAL TOXICITY No data available.
ACUTE DERMAL TOXICITY No data available.
ACUTE RESPIRATORY TOXICITY No data available.
OTHER TOXICOLOGICAL EFFECTS Unknown

Listed as suspected carcinogen by:

IARC NO **NTP** NO **OSHA** NO

SECTION 9 REACTIVITY DATA

INCOMPATIBILITY Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition may yield carbon monoxide and/or carbon dioxide.
STABILITY Stable
HAZARDOUS POLYMERIZATION 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)**

SPILL CONTROL AND RECOVERY 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.

DISPOSAL 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.reuseablepackaging.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**

DOT

PROPER SHIPPING NAME

NON REGULATED

HAZARD CLASS / SUBSIDIARY CLASS

UN/NA#

REPORTABLE QUANTITY (RQ)

Pkg Group

IMO

PROPER SHIPPING NAME

ORGANIC ADDITIVE
NON REGULATED

HAZARD CLASS / SUBSIDIARY CLASS

UN/NA #

Pkg Group

IATA

PROPER SHIPPING NAME

ORGANIC ADDITIVE
NON REGULATED

HAZARD CLASS / SUBSIDIARY CLASS

UN/NA #

Pkg Group

EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT

SECTION 12 **GENERAL STORAGE DATA**

STORAGE TEMPERATURE Maximum: 120 °F 48.9 °C Minimum: 47 °F 8.3 °C

STORAGE INFORMATION 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	OSHA-PEL	ACGIH-TLV
NOT APPLICABLE		

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 and 313

Section 302: Extremely Hazardous Substances

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

SECTIONS 311 & 312 – M.S.D.S. REQUIREMENTS (40 CRF 370)

This product contains ingredient(s) that may require reporting under Hazardous Chemical Inventory Reporting

- | | |
|--|--|
| <input type="checkbox"/> Immediate (Acute) health hazard | <input type="checkbox"/> Sudden release of pressure hazard |
| <input type="checkbox"/> Delayed (Chronic) health hazard | <input type="checkbox"/> Reactive Hazard |
| <input type="checkbox"/> Fire Hazard | |

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 710).

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

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

PRIORITY POLLUTANTS

This product does not contain ingredient(s) on the list of Clean Water Act Priority Pollutants.

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 does not contain ingredient(s) listed on California Prop 65 suspected carcinogen/reproductive toxicant 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 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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