

Revised
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MATERIAL SAFETY DATA SHEETS

TORQUE 180

| | | | | | | |
|--------------|---------------|----------|---------------------|----------|-------------------|----------|
| HMIS; | HEALTH | 2 | FLAMMABILITY | 1 | REACTIVITY | 1 |
| NFPA | HEALTH | 2 | FIRE HAZARD | 1 | REACTIVITY | 1 |

1. GENERAL INFORMATION

PRODUCT NAME: Torque 180
TECHINICAL NAME: Anaerobic

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS No. | % |
|----------------------------|------------|-------|
| Aromatic dimethacrylate | 24448-20-2 | 60-70 |
| Bisphenol A fumarate resin | 39382-25-7 | 10-20 |
| Hydroxyalkyl methacrylate | 27813-02-1 | 10-20 |
| Acrylic acid* | 79-10-7 | 1-5 |
| Organic peroxide* | 80-15-9 | 1-2 |

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA) Ingredients | ACGIH (TLV) | OSHA (PEL) | OTHER |
|--------------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| Organic peroxide | None | None | 1ppm (6mg/m3) Skin (WEEL) |
| Hydroxyalkyl methacrylate | None | None | 1 ppm TWA 3 ppm STEL |
| Acrylic acid | 2 ppm TWA skin 5.9 mg/m3 skin | 10 ppm TWA skin 30 mg/m3 skin | 1 ppm TWA skin 3 ppm STEL skin |

3. HAZARD IDENTIFICATION

Toxicity: Liquid and Vapors are an eye and skin irritant.
Primary Routes of Entry: None known
Signs and Symptoms of Exposure: May cause dermatitis on prolonged contact in sensitive individuals.
Existing Conditions: Acrylic acid: Upper respiratory and lung diseases, dermatitis
Aggravated by Exposure:

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Does not apply
Skin Contact: Wash with soap and water.
Eye Contact: Flush at least 15 minutes with plenty of water. Obtain medical attention.

5. FIREFIGHTING MEASURES

Flash Point: More than 200°F
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting Procedures: Not available
Hazardous Products formed by Fire or Thermal Decomposition: Irritating organic vapors
Unusual Fire or Explosion Hazards: None



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6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Soak up with an inert absorbent. Store in closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage:
Handling:

Store at or below 100°F
Avoid prolonged contact with eyes and skin.

8. EXPOSURE AND PERSONAL PROTECTION

Eyes:
Skin:
Ventilation:
Respiratory

Safety glasses or goggles.
Neoprene, rubber, or butyl rubber gloves.
Does not apply
Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Odor:
Boiling Point:
pH:
Solubility in Water:
Specific Gravity
Vapor Pressure:
Vapor Density:
Evaporation Rate

Green Liquid
Sharp irritating
More than 300°F
Does not apply
Slight
1.1 at 25°C
Less than 0.5 mmbar at 20°C
Not available
Not available

10. REACTIVITY

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal):

Stable
Will not occur
None
Not available

None

11. TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 1000 mg/kg.
Estimated dermal LD50 more than 1500 mg/kg.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal:
EPA Hazardous Waste Number

Incinerate following EPA and local regulations.
NH - Not a RCRA Hazardous Waste Material



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14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or Division:
Identification Number:
Marine Pollutant:
IATA
Proper Shipping Name:
Class or Division:
UN or ID Number:

Unrestricted
Unrestricted
None
None
Unrestricted
Unrestricted
None

Engineering Excellence

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