



MATERIAL SAFETY DATA SHEET

NFS-TORQCAPSULE™

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: NFS-TORQCAPSULE™ **Date Prepared:** March, 2007
Chemical Name: Proprietary Blend of Non-Ionic Liquids
Chemical Family: Drilling Fluid Additive

Supplier: New Fluid Solutions, Inc.
6161 Savoy Ste 248
Houston, TX 77036
Information Telephone: 713-780-3600
Emergency Telephone: CHEMTREC 800-424-9300
www.newfluid.com

II. COMPOSITION

Material or Component	CAS Number	OSHA PEL	Percentage
Non-Ionic Polymer Blend	NA	NA	60-90%
Diethanolamine	111-42-2	NIOSH TWA 3ppm ACGIH TLV 2ppm	3-5%

III. HAZARDS IDENTIFICATION

Immediate Health Effects

Product is irritating to eyes, skin and upper respiratory tract.

Eyes: May cause severe eye irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Ingestion: Not anticipated route of exposure. Harmful if swallowed.

Inhalation: May cause irritation to mucous membranes and upper respiratory tract. Headache, coughing, wheezing, shortness of breath.

Chronic Health Effects

Target Organs: Liver, Kidneys

IV. FIRST AID MEASURES

Eyes: Remove contact lenses if worn. Flush thoroughly with large amounts of running water for at least 15 minutes. Get medical attention if irritation develops.

Skin: Wash exposed area with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation develops.

Ingestion: Wash out mouth with water. Get medical advice.

Inhalation: Remove person to fresh air. Get medical attention for any breathing difficulty.



V. FIRE AND EXPLOSION DATA

- Flashpoint:** >250°F (>121°C)
Flammable Limits: Not applicable
Extinguishing Media: Water spray, CO₂, dry chemical or foam
Special Fire Fighting Procedures: Evacuate all unnecessary personnel. Wear appropriate safety equipment for fire conditions. Firefighters should wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazard: Emits toxic fumes under fire conditions.

VI. ACCIDENTAL RELEASE MEASURES

- Release or Spill** Contain, collect and place in suitable container for reuse or disposal.
Personal Precautions Wear appropriate protective equipment.
Environmental Precautions Keep out of sewers and waterways.

VII. HANDLING AND STORAGE

Handling Handle only in well ventilated areas. Avoid prolonged or repeated exposure. Harmful if swallowed. Wear protective clothing and rubber gloves.

Storage Store in a cool dry place. Keep away from oxidizing agents, copper, copper alloys, zinc, galvanized iron.

VIII. EXPOSURE CONTROL/PERSONAL PROTECTION

- Airborne Exposure Limits:** NIOSH TWA 3 ppm – 15 mg/m³ ACGIH TLV 2mg/m³; Skin
Ventilation Requirements: If handled in a confined space, local exhaust and ventilation system is recommended to control below recommended exposure levels.
Respiratory Protection: Use NIOSH/MSHA approved respirator.
Eye Protection: Use safety glasses with side shield. Maintain eye wash station in work area.
Skin Protection: Use long-sleeved clothing and rubber gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

- Physical State** Liquid
Color Clear or yellow
Odor Mild
pH Not determined
Specific Gravity 1.0 – 1.05
Boiling Point 212°F
Flash Point >250°F (>121°C)
Autoignition Temp. Not determined
Explosion Limits (%) Not determined
Solubility in Water Complete
Vapor Density (Air=1) Not determined

X. STABILITY AND REACTIVITY

- Stability:** Stable under normal conditions of use and storage.
Materials to Avoid: Copper, copper alloys, zinc, galvanized iron, oxidizing agents.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition: Oxides of carbon, nitrogen oxides



XI. TOXICOLOGICAL INFORMATION

No acute toxicity data is available for product. There is toxicity data for diethanolamine. Ingredients are not listed as carcinogenic by IARC, OSHA or NTP.

XII. ECOLOGICAL INFORMATION

No ecological information is available on this product. Keep out of waterways and sewers.

XIII. DISPOSAL

Dispose of in accordance with all local, state and federal regulations.

XIV. TRANSPORTATION INFORMATION

UN Proper Shipping Name:	Not regulated as hazardous
UN Label:	None
UN Identification Number	None
Hazardous Ingredients	Diethanolamine
Placards	None
Reportable Quantity	100 pounds Diethanolamine

XV. REGULATORY INFORMATION

CERCLA:	Diethanolamine 100 lbs
TSCA Listed:	Yes
SARA Title III Section 302	Not listed
SARA Title III Section 311/312	Diethanolamine
SARA Title III Section 313	Yes - Diethanolamine

XVI. OTHER INFORMATION

NFPA Hazard Codes: Health: 1; Flammability: 0; Reactivity: 0, Special Hazards:

NFS-TORQCAPSULE™ is a trademark of New Fluid Solutions, Inc.

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