MATERIAL SAFETY DATA SHEET

This MSDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)
This material safety data sheet conforms to the requirements of ANSI Z400.1

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

N689 – Neptune 689

Manufacturer/Supplier:
American Chemical Technologies, Inc.
485 E. Van Riper Road, Fowlerville, MI 48836
Office: 517-223-0300 Fax: 517-223-1703

Emergency Spill Information:

INFOTRAC 1-800-535-5053
24 HOURS/DAY, 7 DAYS/WEEK

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	Range % by wt.
Polyalkylene Glycol	9038-95-3	95% - 100%
Additives	Proprietary	0.5% - 5%

SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview: No significant immediate hazards for emergency response are known.

Potential Health Effects:

Eye Contact: Essentially non-irritating to eye. Corneal injury is unlikely.

Skin Contact: Brief contact is essentially nonirritating to skin.

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. Vapor from heated material or mist may cause respiratory irritation.

Ingestion: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

HMIS Code: (Health:1) (Flammability:1) (Physical hazard:0) (Protection:)

NFPA Code: (Health:1) (Flammability:1) (Reactivity:0)

SECTION 4 – FIRST AID MEASURES

Eye: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Skin: Wash skin with plenty of water.

Inhalation: Move person o fresh air; if effects occur, consult a physician.

Ingestion: No emergency medical treatment necessary.

Primary Routes of Entry: Breathing mists by inhalation or ingestion.

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

Flashpoint: >200C (>400F) **Method:** C.O.C. ASTM D92

UEL: Not determined.

LEL: Not determined.

Autoignition Temperature: Not Determined.

Flammability Classification: Not Flammable.

Extinguishing Media: Agents approved for Class B (e.g., dry chemical, carbon dioxide, foam, steam) or water fog.

Unusual Fire and Explosion Hazards: Keep away from extreme heat or open flames.

Fire Fighting Equipment: Fire fighters should wear an approved self-contained breathing apparatus.

Hazardous Combustion Products: Incomplete combustion results in oxides of carbon.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps to be taken in Case Material is Released or Spilled: Contain spilled material if possible. Collect in suitable and properly labeled containers. Prevent from entering into soils, ditches, sewers, waterways and/or groundwater.

SECTION 7 – HANDLING AND STORAGE

Handling: No special requirements if handled with reasonable care.

Storage: Store in the following materials: 316 stainless steel. Carbon steel. Glass-lined container. Polypropylene. Polyethylene lined container. Stainless steel. Teflon. This material may soften and lift certain paint and surface coatings. Use product promptly after opening. Store in original unopened container. Unopened containers of material stored beyond the recommended shelf-life should be retested against the sales specifications before use. Storage period: 12 months.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye: Chemical safety goggles and, if handled hot, full face shield.

Skin: Wear clean body-covering clothing. Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use gloves with insulation for thermal protection, when needed.

Inhalation: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator.

Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

Engineering Controls: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Other Protective Equipment: Standard work clothes, shoes, apron, etc.

SECTION 9 – CHEMICAL AND PHYSICAL PROPERTIES

Appearance and Odor	: Colorless Liquid with a mild odor
pH	: Not Applicable
Vapor Pressure	: < 0.01 mmHg @ 20 °C ASTM E1719
Vapor Density	: >1 (air=1)
Boiling Point	: Not determined
Pour Point	: -8°C ASTM D97
Solubility in water	: complete
Specific Gravity	: 1.05 20°C
Evaporation Rate	: Not determined
Percent Volatiles	: none

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Extreme heat.

Materials to Avoid: Avoid strong acids, strong bases, and strong oxidizers.

Hazardous polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity testing has not been conducted on this product.

ACUTE TOXICITY
Component data: Polyalkylene glycol
Ingestion LD50, Rat, male 25,000 mg/kg
Skin Absorption LD50, Rabbit 21,020 mg/kg
Inhalation Approximate LC50, Aerosol, Rat >5.01 mg/l

SECTION 12 – ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

CHEMICAL FATE
Data for Component: Polyalkylene glycol
Movement & Partitioning
No bioconcentration is expected because of the relatively high water solubility.
Persistence and Degradability
Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

OECD Biodegradation tests

Biodegradation	Exposure Time	Method
45%	28d	OECD 301B
44%	28d	OECD 301F

SECTION 13 – DISPOSAL INFORMATION

Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator..

SECTION 14 – TRANSPORTATION INFORMATION

U.S. Dept. of Transportation
Shipping Name: not regulated
Hazard Class:
Identification number:

SECTION 15 – REGULATORY INFORMATION

All components of this product are on the U.S. TSCA inventory.
Superfund Amendments and Reauthorization Act of 1986 Title 111(Emergency Planning and Community Rights to Know Act) section 313: To the best of our Knowledge this product does not contain chemicals at levels which require reporting under this statute.

Sections 311 and 312

Delayed(Chronic) Health Hazard :	NO
Fire Hazard :	NO
Immediate(Acute) Health Hazard :	NO
Reactive Hazard :	NO
Sudden Release of Pressure Hazard :	NO

State RTK	State
	None

CA Prop 65
This product contains no listed substances known to the state of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under this statute.

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

SECTION 16 – SPECIAL PRECAUTIONS

Prepared By: Mark D. Latunski
Date Revised: 10/15/2009
Supersedes: 10/15/2009
Date Prepared: 10/15/2009

The information provided herein is believed to be accurate to the best of the company's knowledge as of the date of its issue. We do not warrant or guarantee the information provided and will not be held liable for any loss or damage from its use.