SAFETY DATA SHEET

This MSDS conforms to the GHS, ISO 11014-1, and ANSI Z400.1
This MSDS complies with 29 CFR 1910.1200
Prepared according to EU Directive 1907/2006/EC

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Neptune® AW-68
Product Code: N AW-68
Product Type: Polyalkylene Glycol Lubricant
Recommended Use: Hydraulic Fluid
Manufacturer/Supplier: Emergency Spill Information:
American Chemical Technologies, Inc. INFOTRAC 1-800-535-5053 (US & Canada)
485 E. Van Riper Road, Fowlerville, MI 48836 INFOTRAC 1-352-323-3500 (International)
Office: 517-223-0300 Fax: 517-223-1703 24 HOURS/DAY, 7 DAYS/WEEK

SECTION 2 – HAZARDS IDENTIFICATION

GHS Product Classification: None
Emergency Overview: This product has been evaluated and does not require any hazard warning on the label under OSHA criteria. The product does not require a hazard warning label in accordance with GHS criteria according to REGULATION (EC) No 1272/2008.
Risk Phrases: None
HMIS Code: (Health:1) (Flammability:1) (Reactivity:0) (Protection: B)
NFPA Code: (Health:1) (Flammability:1) (Reactivity:0)
WHMIS Code: None

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>EC#</th>
<th>Range % by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyalkylene glycol</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>90-100%</td>
</tr>
</tbody>
</table>

SECTION 4 – FIRST AID MEASURES

Eye: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin: After contact with skin, take off immediately all contaminated clothing, wash immediately with plenty of soap and water.
**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately.

**Symptoms/effects:** Mild irritation possible.

**Special treatment:** Treat symptomatically.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** In case of fire use dry chemical, carbon dioxide, foam, steam, or water fog.

**Unsuitable Extinguishing Media:** Never use water.

**Specific Hazards:** Keep away from extreme heat and open flames.

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

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

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Wear suitable protective clothing and gloves.

**Environmental precautions:** Use appropriate containment to avoid environmental contamination. Do not empty into drains; dispose of this material and its container in a safe way.

**Methods and materials for cleanup:** To clean the floor and all objects contaminated by this material use an inert absorbent material.

**SECTION 7 – HANDLING AND STORAGE**

**Handling:** No special requirements if handled with reasonable care.

**Storage:** Keep in a cool place away from open flames. Store inside away from extreme temperatures.

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure limits:** None.

**Engineering Controls:** In case of insufficient ventilation wear suitable respiratory equipment.

**Protective Equipment:** Wear suitable protective clothing, gloves and eye/face protection.

**SECTION 9 – CHEMICAL AND PHYSICAL PROPERTIES**

**Appearance:** Clear colorless liquid
Odor : Mild odor
Odor Threshold : Not Determined
pH : Not Applicable Method: ASTM D1293
Melting Point / Freezing Point : Pour Point -38°C (-36°F)
Initial Boiling Point : Not determined
Flash Point : 253°C (487°F) Method: ASTM D92
Evaporation Rate : Not Determined
Flammability : Not Flammable
Upper/Lower Explosive Limits : Not Determined
Vapor Pressure : <0.5 mm Hg @ 37.8 °C Method: ASTM D5191
Vapor Density : Not Determined
Specific Gravity : 1.03 @ 25°C Method: ASTM D1475
Solubility in Water : 100%
Partition Coefficient : <3 n-octanol/water Method: ASTM E1147
Autoignition Temperature : Not Determined Method: ASTM E659
Decomposition Temperature : Not Determined Method: ASTM E2550
Viscosity : 68.0 cSt @ 40°C Method: ASTM D445

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable.
Hazardous Reactions: None.
Conditions to Avoid: Keep away from extreme heat.
Materials to Avoid: Keep away from chlorine, fluorine, and other strong oxidizers.
Hazardous Decomposition Products: None identified.

SECTION 11 – TOXICOLOGICAL INFORMATION

- ACUTE EXPOSURE --

Dermal The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
Inhalation No data available to indicate product or components may be an inhalation toxicity or sensitization hazard.
Ingestion The LD50 in rats is between 2000 mg/kg and 5000 mg/kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.
-- CHRONIC EXPOSURE --

Eye  Prolonged or repeated contact may cause eye irritation.
Dermal Prolonged or repeated contact may cause skin irritation.
Carcinogenicity No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

SECTION 12 – ECOLOGICAL INFORMATION

-- ENVIRONMENTAL TOXICITY --

Ecotoxicity: EPA classification – “practically non-toxic”
Fish Toxicity: LC50 = 803.4 mg/L (Pimephales promelas, 96 Hr., OECD 203)
Invertebrate Toxicity: LC50 = 737.1 mg/L (Daphnia magna, 48 Hr., OECD 202)
LC50 = 889.3 mg/L (Mysidopsis bahia, 96 Hr., OPPTA 850.1035)
Vascular Plant Toxicity: No ecological doubt. Not determined.
Algae Toxicity: EC50 = 9200 mg/L, NOEC = 2500 mg/L (green algae, 72 Hr., OECD 201)
Bacteria Toxicity: No ecological doubt. Not determined.

-- ENVIRONMENTAL FATE --

Persistence and Degradability: 61.8% OECD 301B based on data from ingredients
Bioaccumulative Potential: Nil.
Mobility in Soil: Not determined.
Other Adverse Effects: None identified.

SECTION 13 – DISPOSAL INFORMATION

Do not empty into drains; dispose of this material and its container as non-hazardous waste.
This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. This material, if discarded, should be considered a European non-hazardous waste in accordance with Directive 91/689/EC.
European Waste Catalog Code (EWC-code): 13 01 12

SECTION 14 – TRANSPORTATION INFORMATION

UN Number Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class: Not regulated.
Package Group: Not regulated.
Marine Pollutant: No
Special Precautions: None.

SECTION 15 – REGULATORY INFORMATION

-- Global International Chemical Inventories --
USA All components of this material are on the US TSCA Inventory or are exempt.
EEC All components are in compliance with the EC 7th Amendment Directive 92/32/EEC.
Canada All components of this material are DSL listed or are exempt.
Japan All components are in compliance with the Chemical Substances Control Law of Japan.
Australia All components are in compliance with chemical notification requirements in Australia.
Korea All components are in compliance in Korea.
Philippines All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China All components of this product are listed on the Inventory of Existing Chemical Substances in China.

-- Other U.S. Federal Regulations --
EPA 550-B-01-003 This product does not contain greater than 1.0% of any chemical substances (0.1% for carcinogens) listed on the Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Clean Air Act Section 112(r): EPCRA Section 302 Extremely Hazardous Substances, CERCLA Hazardous Substances, EPCRA Section 313 Toxic Chemicals, CAA 112(r) Regulated Chemicals For Accidental Release Prevention

SARA 311 Classifications
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No
Immediate (Acute) Hazard No
Delayed (Chronic) Hazard No

-- State Regulations --
Cal. Prop. 65 This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, American Chemical Technologies does not routinely analyze its products for impurities which may be such chemicals.

-- Other / International --
Harmonized Tariff Schedule Number 3403.99.0000

SECTION 16 – OTHER INFORMATION
Label text:
Handling: No special requirements if handled with reasonable care.
First Aid:
Eye: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin: After contact with skin, take off immediately all contaminated clothing, wash immediately with plenty of soap and water.
Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately.
Fire: In case of fire use dry chemical, carbon dioxide, foam, steam, or water fog.
Spill or Leak: To clean the floor and all objects contaminated by this material use an inert absorbent material.

Prepared By: Mark D. Latunski
Date Revised: 08 January 2014
Supersedes: 29 October 2013
Date Prepared: 18 June 2012

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.

Date Translated: 08 January 2014

This SDS originated in English. Context errors associated with the translation to other languages are avoided to the best of our ability. If the translation is unclear, please reference the English version.