SAFETY DATA SHEET

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

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: EcoSafe® V-200
Product Code: ESV200
Product Type: Polyether Polyol Lubricant
Recommended use: Hydraulic Fluid

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 (US & Canada)
INFOTRAC 1-352-323-3500 (International)
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

Component | CAS#        | Range % by wt.
-----------|-------------|----------------
Rapeseed Oil, low erucic | 120962-03-0 | 50% - 60%
Polyether polyol | Proprietary | 40%-50%

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, and 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. If swallowed, rinse mouth with water (only if the person is conscious).

Symptoms/effects: Mild irritation with prolonged or repeated exposure.

Special treatment: None

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: In case of fire use an approved self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions: Use appropriate containment to avoid environmental contamination. Do not empty into drains. This material and its container must be disposed of 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>Country</th>
<th>Long Term (8 Hours TWA)</th>
<th>Short Term (15 min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rapeseed Oil</td>
<td>120962-03-0</td>
<td>USA</td>
<td>15 mg/m³ (total particulate)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 mg/m³ (mist)</td>
<td></td>
</tr>
</tbody>
</table>

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**Engineering Controls:** Use only in well-ventilated areas.

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

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**SECTION 9 – CHEMICAL AND PHYSICAL PROPERTIES**

- **Appearance:** Clear Green liquid
- **Odor:** Mild
- **Odor Threshold:** Not Determined
- **pH:** Not Applicable Method: ASTM D1293
- **Melting Point / Freezing Point:** Pour Point -29°C (-20°F)
- **Initial Boiling Point:** Not Determined
- **Flash Point:** 264°C (507°F) Method: ASTM D92
- **Evaporation Rate:** Not Determined
- **Flammability:** Not Flammable
- **Upper/Lower Explosive Limits:** No Determined
- **Vapor Pressure:** Not Determined Method: ASTM D5482
- **Vapor Density:** Not Determined
- **Specific Gravity:** 0.947 @ 25°C Method: ASTM D1475
- **Solubility in Water:** <1g/100g @ 25°C
- **Partition Coefficient:** Not Determined Method: ASTM E1147
- **Autoignition Temperature:** 416°C (780°F) Method: ASTM E659
- **Decomposition Temperature:** 260°C (500°F) Method: ASTM D3850
- **Viscosity:** 39.2 cSt @ 40°C Method: ASTM D445

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**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. No data available to indicate product or components may be a skin sensitizer.

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 --

Fish Toxicity: LC₅₀ = 38.1 mg/L (Pimephales promelas, 96 Hr., OECD 203)

Invertebrate Toxicity: LC₅₀ = 424.5 mg/L (Daphnia magna, 48 Hr., OECD 202)

Vascular Plant Toxicity: No ecological doubt. Not determined.

Algae Toxicity: No ecological doubt. Not determined.

Bacteria Toxicity: No ecological doubt. Not determined.

-- ENVIRONMENTAL FATE --

Persistence and Degradability: This product will biodegrade very rapidly based on OECD 301 type test data for similar products.

Chemical Oxygen Demand (COD) – 517,000 mg O₂/l – 0.55 mg O₂/mg
BOD₅ = 336 mg O₂/g; COD = 2510 mg O₂/g (13.4%)

Bioaccumulative Potential: Not determined

Mobility in Soil: Not determined.
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.

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 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.
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.
Canada All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
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.

-- Product Registrations --

U.S. Dept of Agriculture  USDA Certified Biobased Product 57%

-- 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, and 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. If swallowed, rinse mouth with water (only if the person is conscious).
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:  18 June 2014
Supersedes:  28 April 2014
Date Prepared:  05 May 2004

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:  18 June 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.