Emergency Telephone #: CHEMTREC (24 hours) 1-800-424-9300 (US only) or (703) 527-3877 outside US

1. Chemical Product and Company Identification

Product Name: Ester Oil 100
Description: A/C Compressor lubricant
Company Identification: UView Ultraviolet Systems Inc.
1324 Blundell Road
Mississauga, Ontario, Canada
L4Y 1M5
(905) 615-8620 (for inquiries only)
Issue Date: October 1, 2007

2. Composition/Information on Ingredients

Chemical Name	CAS Number	%W
Ester (Polyol Ester)	Proprietary	100 %

(See Section 8 for exposure guidelines)
(See Section 15 for regulatory information)

Hazards Disclosure: This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains no known hazardous materials.

3. Hazards Identification

WHMIS Classification: D2B, Toxic Material

HMIS Rating -	**Health:**	**1**
	Flammability:	**1**
	Reactivity:	**0**
	Personal Protection Index:	**B**

Potential Health Effects
Eye: Not known to cause permanent injury to eye tissue. Contact may cause irritation.
Skin: Prolonged or repeated contact may cause skin irritation.
Inhalation: No known hazards in normal industrial use. No information regarding inhalation available.
Ingestion: May be harmful if swallowed.

4. First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention if irritation develops or persists.
Skin Contact: Remove contaminated clothing and wash affected area immediately with large amounts of soap and water. Get medical attention if irritation develops or persists.
Inhalation: Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. Get medical attention if cough or other symptoms develop.
Ingestion: Do Not induce vomiting. Contact a physician. Never give anything by mouth to an unconscious person. If swallowed, immediately give 2 glasses of water.

5. Fire Fighting Measures

COC Flash Point: >150 ^{o}F
Autoignition Temperature: N/A
Flammable Limits in Air: LEL(%): N/A; UEL(%): N/A
Extinguishing Media: Use dry chemical, carbon dioxide, foam or water.
Fire & Explosion Hazards: No known unusual hazards in a fire/explosion situation. Material does not have explosive properties.
Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Contain runoff water. Contaminated extinguishing water must be disposed of in accordance with applicable regulations. Avoid breathing smoke, fumes and decomposition products. Material will float on water.

6. Accidental Release Measures

Safeguards (Personnel): Wear appropriate personal protective equipment.
Initial Containment: Contain spilled material. Do not allow material to enter soil or surface water. Absorb spills with inert material. Treat or dispose of waste material in accordance with all local, state/provincial and federal regulations. Wash area to prevent slipping.
Large Spills Procedure: Contain spilled material. Large spillage should be dammed-off and pumped into containers. Take up the remainder with absorbent material. Prevent spilled product from entering stream or drinking water supply. Treat or dispose of waste material in accordance with all local, state/provincial and federal regulations.
Small Spills Procedure: Absorb spills with inert material. Avoid disposal into wastewater treatment facilities. Floor may become slippery. Treat or dispose of waste material in accordance with all local, state/provincial and federal regulations.

7. Handling and Storage

Handling (Personnel): Do not get into eyes, on skin or clothing. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. When sampling containers use appropriate personal protective equipment.

Handling (Physical Aspects): Avoid extreme temperatures. Always keep containers tightly closed to avoid contamination. Use with adequate ventilation.
Storage Precautions: Protect containers from physical damage.

8. Exposure Controls/Personal Protection

Engineering Controls/Ventilation: Good general ventilation should be sufficient to control airborne levels.
Eye/Face Protection Requirements: Wear safety glasses or goggles.
Skin Protection: Wear protective gloves to minimize skin contamination. For brief contact, normal work attire should be sufficient. When prolonged or repeated contact could occur, use protective clothing impervious to this material.
Respiratory Protection Requirements: Under normal use conditions, with adequate ventilation, no special handling equipment is required.
Exposure Guidelines: No information available

9. Physical and Chemical Properties:

Appearance……..: Clear Liquid
Odour……..: Mild
Water Solubility……..: Insoluble
Boiling Point ……..: NA
Vapour Density .....……..: NA (Air = 1)
Specific Gravity ……..: 0.97 @ 15.6 ^{o}C
Viscosity ……..……..: 100 cSt @ 40 ^{o}C

10. Stability and Reactivity

Chemical Stability: Stable under normal conditions of storage and use.
Incompatibility with Other Materials: Avoid contact with strong oxidizers, strong acids and strong bases.
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Decomposition will not occur if handled and stored properly. In the case of a fire, oxides of carbon, hydrocarbons, fumes and smoke may be produced.

11. Toxicological Information

Dermal LD50 Species: Rabbit Results: > 2,000 mg/kg. Based on data from similar materials.
Oral LD50 Species: Rat Results: > 5,000 mg/kg. Based on similar materials.
Reproductively Toxicity: No data available

12. Ecological Information

Fresh Water Fish Toxicity: Acute LC50 for >1000 ppm.
Fresh Invertebrates Toxicity: Acute EC50 >1000 ppm
Algae Toxicity: Acute EC50 >1000 ppm
Saltwater Fish Toxicity: NA
Saltwater Invertebrates Toxicity: NA
Bacteria Toxicity: Acute EC50 >1000 ppm

13. Disposal Information

Waste Disposal: Unclean empty containers should be disposed of in the same manner as the contents. Avoid washing material into sewer systems without proper treatment and authorization by the treatment facility management. Treat or dispose of waste material in accordance with all local, state/provincial and federal regulations.

14. Transportation Information

DOT Information: Non-Regulated
TDG Information: Non-Dangerous

15. Regulatory Information

Miscellaneous Information: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA) and the Canadian Domestic Substance List (DSL).

16. Other Information

Reason for Issue ……..: Revision
Prepared By .....……..…..: Stan Lem
Approval Date.....……..…..: October 1, 2007

Additional Information: The data in this Material Safety Data Sheet relates only to the specific material designate herein. It does not relate to use in combination with any other material or in any process.
Disclaimer of Liability: The information is furnished without warranty, expressed or implied, except that it is accurate to the best of our knowledge and belief. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. It is the responsibility of the users to comply with all applicable federal, state/provincial and local laws and regulations.