Material Safety Data Sheet

SECTION 1 - Product and Company Identification

Manufacturer: **Energy & Material Recovery, Inc.**
4150 n. Suttle Road
Portland, Oregon – 97217

CONTACT INFORMATION
For General Information, call Oregon:
(503) 286-8352
For Transportation Emergencies, call:
CHEMTREC at (800) 424-9300

PRODUCT: **High VI Base Oil 300**

Synonyms: High VI Base Oil 300

Chemical Family: Petroleum Hydrocarbon

CAS No.: Not Known

SECTION 2 - Composition/Ingredients Information

	TLV	UNITS	AGENCY	TYPE
Oil Mist, if generated	5.00	MG/M3	OSHA	Full Term TWA

The identities of ingredients that are trade secrets are excluded from this list.

SECTION 3 - Hazards Identification

Potential Health Effects:

Eye Contact: Contact may cause mild eye irritation including stinging, watering, and redness. Contact with the heated material may cause thermal burns.

Skin Contact: Contact may cause mild to moderate skin irritation. Contact with the heated material may cause thermal burns. No harmful effects from skin absorption have been reported.

Inhalation: Not likely to present an inhalation hazard at normal temperatures and pressures. If material is heated, high concentrations of vapor mist may be irritating to the respiratory tract, including the nose and throat.

Ingestion: May cause irritation to the digestive tract, nausea, vomiting, and diarrhea.

Cancer: Following repeated skin application, animal studies have shown that Base Oil has caused an increase of skin cancer in mice. It is therefore recommended that prolonged or repeated contact with Base Oil be avoided.

SECTION 4 - First Aid Measures

Eye Contact: For direct contact, flush the affected eye(s) with clean water. If irritation or redness develops, seek medical attention.

Skin Contact: DO NOT USE gasoline, thinners, or solvents to remove product from skin. Wipe material from skin and remove contaminated clothing. Clean the affected area(s) thoroughly by washing with mild soap and water – or if necessary – a waterless skin cleanser. If irritation or redness develops and persists, seek medical attention.

Inhalation: If irritation of the nose or throat develops, move away from the source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing or if breathing difficulties develop, artificial respiration of oxygen should be administered by qualified personnel; seek medical attention urgently.

Ingestion: If the victim is conscious, give 2 or 3 cups of milk or water to drink, and seek medical attention. TO PHYSICIAN: emesis or lavage is not recommended for ingestion of minute quantities or taste of most hydrocarbons. Medical opinion is divided for larger ingestions. Emesis or lavage with a cuffed endotracheal tube is recommended by some physicians to prevent aspiration.

SECTION 5 - Fire Fighting Measures

HAZARD RANKING: 0 = Least; 1 = Slight; 2 = Moderate; 3 = High; 4 = Extreme

NFPA HAZARD CLASS:

Health Hazard:	1
Flammability:	1
Reactivity:	0
Other:	None

FLASH POINT: 350-450°F – Closed Cup

DOT Classification: Not regulated

Extinguishing Media:
Extinguish with dry chemical, CO2, water spray, foam, sand, or earth. Water or foam may cause frothing.

Fire Fighting Procedures:
Isolate immediate hazard area, and keep all unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Water spray may be useful in minimizing vapors, and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Move undamaged containers from fire area if it can be done with minimal risk.

SECTION 6 - Accidental Release Measures

HIGHWAY OR RAILWAY SPILLS IN THE CONT. USA, CALL CHEMTREC: (800) 424-9300

Spill or Leak Procedures:
Collect leaking liquid in sealable containers. Absorb spilled liquids in sand or inert absorbent. Contact fire authorities and appropriate state and local agencies. If spill of any amount is made into or upon US Navigable waters, the contiguous zone, or adjoining shoreline, notify the Coast Guard National Response Center at (800) 474-8802.

SECTION 7 - Handling & Storage

Handling Precautions:
Avoid prolonged or repeated skin contact. Always wash thoroughly after handling. For Base Oil, launder saturated clothing before wearing, and discard oil-soaked shoes and unwashable clothing.

Storage Precautions:
Store in a cool, dry location. Keep away from incompatible materials (See Section 10).

SECTION 8 - Exposure Controls and Personal Protection

Ventilation: Use in a well-ventilated area. If current ventilation practices are not adequate in maintaining airborne concentration below the established exposure limits, (See Section 2) additional ventilation or exhaust may be required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: None required in normal use. If airborne concentrations exceed recommended exposure limits, (See Section 2) a suitable filter-type respirator (with an organic vapor cartridge) should be worn.

Skin: The use of petroleum resistant gloves is recommended.

Eye: Approved eye protection (such as: Safety glasses, safety goggles, and/or full face shield) is recommended to safeguard against potential eye contact or injury.

Other: Practice good personal hygiene. A source of clean water should be available in the work area for flushing eyes and skin. Protective clothing and shoes should be worn.

SECTION 9 - Physical and Chemical Properties

Appearance:	Brown Clear Liquid #4	**Boiling Point:**	Above 600°F (316°C)
Specific Gravity:	.089 – 0.91	**Evaporation Rate:**	Slower than Ether
Vapor Density:	Heavier Than Air	**% Volatile:**	Negligible
Odor:	Characteristic	**Solubility in Water:**	Negligible

SECTION 10 - Stability and Reactivity

STABILITY
Material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

REACTIVITY
Chemically stable.

INCOMPATABILITY
Avoid contact with strong oxidizing agents. Extended exposure to high temperatures may cause decomposition.

HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition in the presence of air may yield major amounts of oxides or carbon, and minor amounts of oxides of nitrogen, phosphorus, sulfur, and zinc.

HAZARDOUS POLYMERIZATION:
Not known to occur under normal temperatures and pressures.

SECTION 11 - Toxicological Information

Eye Contact: Irritant

Ingestion: Not known due to the unknown nature of contaminants.

Skin Contact: Contact tends to remove skin oils, possibly leading to irritation.

Carcinogenicity: Material is a possible skin cancer hazard based on tests with laboratory animals. Avoid prolonged or repeated skin contact. Avoid breathing mist. Use adequate ventilation. Always wash thoroughly with mild soap and water after handling.

SECTION 12 - Ecological Information

Not evaluated at this time.

SECTION 13 - Disposal Considerations

Dispose in accordance with applicable federal, state, and local regulations. PLEASE RECYCLE.

SECTION 14 - Transport Information

DOT Shipping Description: Petroleum Base Oil

Placard/Marking: None

SECTION 15 - Regulatory Information

EPA SARA 311/312 (Title III Hazardous Categories):

Acute Health:	No	**Chronic Health:**	Yes
Fire Hazard:	No	**Pressure Hazard:**	No
Reactive Hazard:	No		

California Proposition 65:
WARNING: This material contains may contain chemicals known to the State of California to cause cancer.

SECTION 16 - Other Information

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES
The information in this document is believed to be true and correct as of the date of issue. No warranty of merchant ability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy of completeness of this information; the results to be obtained from the use of this information of the product, the safety of this product or the hazards related to it's use.

This information and product are furnished on the condition that the person receiving them shall make his or her own determination as to the suitability of the product for his or her own purpose and on condition that he or she assume the risk of his or her use thereof.

Last Revised: 02/01/2005