



# ArtiKool



---

## SECTION 1. PREPARATION INFORMATION

**Date:** 4/3/07 **Manufactured by:** ENERGY DESIGN SERVICES, LLC.  
**For:** ARTIKOOL™  
8 BRONTE DRIVE  
TAFT, TN. 38488-6006

---

## SECTION 2. PRODUCT INFORMATION

**Trade Name:** ARTIKOOL™ - Engine Treatment  
**Part no.** 12121, & 12841 **Lubricant Additive**  
**Emergency Phone:** 620/663-8338  
**Transportation NFPA Code:** Health: 1 Fire: 1 Reactivity: 0

---

## SECTION 3. HAZARDOUS INGREDIENTS

- This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA, IARC, or the National Toxicology Program (NTP) at a concentration greater than 0.1%.

INGREDIENTS	CAS # or	% RANGE
- Severely Solvent Refined Heavy Paraffinic Petroleum Oil	64741-88-4 &/or	
- Petroleum hydrocarbon lubricant	64742-54-7 64742-65	Mixture
- Proprietary Ingredients	Mixture	---

---

## SECTION 4. FIRE AND EXPLOSION DATA

**Flash Point:** >310 degrees F (ASTM D-93)  
**Upper Flammable Limit:** Not Applicable  
**Lower Flammable Limit:** Not Applicable  
**Extinguishing Media:** CO2, Dry chemical, foam, water spray, water fog.  
**Special Firefighting Procedures:** Self-contained full face breathing apparatus.  
**Unusual Fire & Explosion Hazards:** Toxic fumes may evolve on burning  
**Explosion Data:** Not sensitive to mechanical impact or static discharge.

---

BALANCE OF PAGE INTENTIONALLY LEFT BLANK



---

**SECTION 5. HEALTH HAZARD DATA**

- Oral Toxicity:** Greater than 5000mg/kg in rats, Based on component data or similar material.
- Eye Irritation:** May cause eye irritation, Based on component data or similar material.
- Skin Irritation:** May cause skin irritation, Based on component data or Similar material.
- DERMAL TOXICITY:** The LD50 in rabbits is > 2000 mg/kg. Based on data from components or similar materials.
- INHALATION TOXICITY:** No data available to indicate product or components may be toxic inhalation hazard.
- RESPIRATORY IRRITATION:** If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.
- DERMAL SENSITIZATION:** No data available to indicate product or components may be a skin sensitizer.
- INHALATION SENSITIZATION:** No data available to indicate product or components may be respiratory sensitizers.
- MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** We have not received any medical reports to indicate exposure to this product aggravates any medical conditions.
- CHRONIC EXPOSURE --
- CHRONIC TOXICITY:** No data available to indicate product or components present at greater than 1% are chronic health hazards.
- 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 TOXICITY:** 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.

---

**BALANCE OF PAGE INTENTIONALLY LEFT BLANK**



---

**SECTION 6. FIRE AND EXPLOSION DATA, cont.**

**OTHER:** -- Additional Information --  
No other health hazards known.

**EXPOSURE LIMITS:** Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

---

**SECTION 7. EMERGENCY FIRST AID PROCEDURES**

**Skin:** Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

**Eye:** Flush with water 15 minutes. See Physician if eye irritation develops or persists..

**Inhale:** Remove to fresh air. See physician if irritation persists.

**Oral:** Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

**ADDITIONAL:** Note to physician Treat symptomatically.

---

**SECTION 8. SPECIAL PROTECTION INFORMATION**

**Ventilation Procedure:** Mechanical ventilation recommended.

**Gloves Protection:** Neoprene or Nitrile rubber gloves recommended.

**Eye Protection:** Safety glasses.

**Respiratory Protection:** Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded.

---

**SECTION 9. PHYSICAL DATA**

**Vapor Pressure:** Not Determined.

**Specific Gravity:** 0.946 @ 60 degrees F.

**Water Solubility:** Insoluble.

**Percent Volatile:** Unknown.

**Vapor Density:** Not determined

**Odor:** Mild

**Odor Threshold:** Unknown

**Appearance:** Dark Brown liquid

---

**BALANCE OF PAGE INTENTIONALLY LEFT BLANK**



---

#### SECTION 10. REACTIVITY DATA

**Stability:** Stable  
**Incompatibility:** Oxidizing Agent  
**Polymerization:** Will not occur  
**Thermal Decomposition:** Oxides of carbon, nitrogen, sulfur phosphorous, calcium, sodium, zinc, magnesium, hydrogen sulfide, smoke, carbon monoxide, aldehydes and other products of incomplete combustion.

---

#### SECTION 11. SPILL OR LEAK PROCEDURES

**SPILL PROCEDURES:** Ventilate area. Wear chemical splash goggles. Wear rubber boots. Prevent entry into sewers, waterways. Pick up free liquid for recycle or disposal. Absorb small amount on inert material for disposal.

**WASTE DISPOSAL:** If disposed of, this material is believed to be non-hazardous. Disposal should be in compliance with applicable provincial, federal, state, or local laws.

---

#### SECTION 12. SPECIAL PRECAUTIONS

**SPECIAL PRECAUTIONS:** Store in well ventilated area away from sparks, flame, and heat. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse. Discard contaminated shoes. Do not take internally.

---

#### SECTION 13. TRANSPORTATION AND LABELING

**DOT Proper Shipping Name:** Not Applicable  
**DOT Hazard Class:** Not Applicable  
**DOT ID NUMBER (UN NO.):** Not Applicable  
**IMO CLASS:** Not Applicable  
**CERCLA Hazardous Substances:** None Known  
**Precautionary Labels:** WARNING  
- CAUSES EYE IRRITATION.

---

**BALANCE OF PAGE INTENTIONALLY LEFT BLANK**



---

**SECTION 14. OTHER REGULATORY INFORMATION**

**U.S. TSCA Inventory:** All components are included on the U.S. TSCA inventory.

**EEC EINECS:** All components are in compliance with the EEC Sixth Amendment Directive 79/831.

**Japan MITI:** Not determined.

**SARA EXT. HAZ. SUBST.:** This product is not known to contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances List. SARA Section 313 Status: From 0.6 to 1.2 percent, Zinc compounds; contains 0.1% as Zn.

---

**BALANCE OF PAGE INTENTIONALLY LEFT BLANK**

**Revised: 4-3-07**  
**Replaces: 1-2-07**

---

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Energy Design Services, LLC, (EDS, llc) knowledge. EDS, llc makes no warranty whatsoever, expressed or implied, or of Merchantability of fitness for the particular purpose. The information relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Customers are encouraged to conduct their own tests before using the product, and to read its label for specific instructions. EDS, llc, assumes no responsibility for injury to buyer, or to third persons, or for any damage to any property, and recipient assumes all such risks.

---

**ArtiKool™ - Engine Treatment**  
**Part No. 12121, & 12841 - 4-3-07**