

**Spectrum Lubricants Corporation  
500 Industrial Park Drive  
Selmer, TN 38375**

## MATERIAL SAFETY DATA SHEET

### SECTION 1 -- IDENTIFICATION

**Product Trade Name:** Echo 32:1 Two-Cycle Engine Oil  
**Revision Date:** 11-14-05  
**Phone Number:** (731) 645-4972  
**Fax Number:** (731) 645-4810  
**E-mail Address:** [vswedley@spectrumcorporation.com](mailto:vswedley@spectrumcorporation.com)  
**Emergency Number:** 800-424-9300 after 5:00 p.m.  
**Chemical Family:** Petroleum Lubricating Oil

NOTE: Petroleum lubricating oils with a flashpoint above 200°F, are not regulated by D.O.T. standards.

### SECTION 2 -- HAZARDOUS INGREDIENTS

<u>Name</u>	<u>CAS #</u>	<u>Approximate %</u>	<u>Regulatory Agency</u>	<u>Exposure Limit</u>
Performance Additive	64742-65-0	3-9	OSHA/ACGIH	5mg/m3 Mist
Solvent	8052-41-3	8-11	OSHA/ACGIH	5mg/m3 Mist
Base Oil	64742-52-5	80-89	OSHA/ACGIH	5mg/m3 Mist
Red Dye	1330-0-7	< 0.3	OSHA/ACGIH	100 ppm

### HMIS/NFPA CODES

Health	Flammability	Reactivity	Protective Equipment
1	1	0	C, D, H

See Section 6, Chronic Effects, for potential over-exposure hazard.

### SECTION 3 -- PHYSICAL DATA

**Vapor Pressure (mmHg) at 20°C:** <1  
**Specific Gravity at 60°F:** .93  
**Water Solubility:** Negligible  
**Boiling Point:** 600+°F  
**Vapor Density (Air=1):** >1  
**Evaporation Rate (BUAC=1):** <1  
**Odor:** Hydrocarbon Odor  
**Appearance:** Red Color Liquid  
**Viscosity at 100°C CST:** 10.0 (typical)

### SECTION 4 -- FIRE AND EXPLOSION HAZARDS

**Flash Point:** 205°F  
**Fire Point:** 240°F  
**Extinguishing Media:** Water Fog, Chemical Foam, Dry Chemical Powder, and CO2  
**Special Firefighting Procedures:** Cool exposed containers with water spray. Avoid breathing fumes.  
**Unusual Fire and Explosion Hazards:** Pressure increase in over heated closed containers. Cool containers with water spray. Product at elevated temperature gives off flammable vapors.

## SECTION 5 -- REACTIVITY DATA

Stability:	Stable
Incompatibility:	Avoid strong oxidants.
Polymerization:	Will not occur.
Thermal Decomposition:	Partial burning produces fumes, smoke and carbon monoxide.

## SECTION 6 -- HEALTH HAZARD DATA

Inhalation:	Inhalation of fumes may result in dizziness, headache and respiratory irritation.
Eye Contact:	Contact with eyes may cause minimal irritation.
Skin Contact:	Mild irritation may occur with prolonged or repeated contact.
Ingestion:	Slightly toxic. Pulmonary aspiration hazard if vomiting occurs.
TLV:	5mg/m <sup>3</sup> as mist. ACGIH 1984-85.
Chronic Effects:	Product has a low order of acute oral toxicity. Ingredients of this product are <u>not</u> listed as potential carcinogens in N.T.P. <u>Annual Report on Carcinogens, I.A.R.C. Monographs</u> , or by O.S.H.A. HCS (g) (2) (vii).

## SECTION 7 -- SPECIAL PROTECTION INFORMATION

Ventilation Procedure:	Ventilate as needed to comply with exposure limit.
Gloves Protection:	Use impervious gloves to avoid repeated/prolonged skin contact.
Eye Protection:	Use goggles/face shield to avoid eye contact.
Work/Hygienic Practices:	If clothing becomes contaminated, change to fresh clean clothing. Do not wear until thoroughly laundered.

## SECTION 8 -- SPILL OR LEAK PROCEDURES

Spill Procedures:	Remove ignition sources. Recover liquid. Add absorbent to spill area. Ventilate confined spaces. Advise authorities if product enters sewers, etc.
Waste Disposal:	Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site.

## SECTION 9 -- SPECIAL PRECAUTIONS

Handling and Storage Precautions:	Keep containers closed when not in use. Do not handle or store near heat or flames. Use chemical resistant gloves and apron.
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## EMERGENCY FIRST AID PROCEDURES

Skin:	Wash skin with soap and warm water. Wash clothing before re-use.
Eye:	If splashed into eyes flush eyes with clear water for five (5) minutes.
Inhalation:	If overcome by fumes remove from exposure immediately.

**Oral:**

**If ingested, do not induce vomiting. Call a physician.**



**The data presented herein is based upon tests and information, which we believe to be reliable. However, users should make their own investigations to determine the suitability of the information for their particular purpose.**