

**MATERIAL SAFETY DATA SHEET**

PRODUCT TRADE NAME: **Engine Oil Break-In Additive**

REVISION DATE: June 1, 2011

CHEMICAL NAME: Mixture

NFPA CODE: Health: 2 Fire: 1 Reactivity: 0

**SECTION 1 - HAZARDOUS INGREDIENTS**

10 to 20% Zinc dialkyldithiophosphate

CAS #68649-42-3

This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs, or National Toxicology program at a concentration > 0.1%.

**SECTION 2 - FIRE AND EXPLOSION HAZARDS**

FLASH POINT: >450°F  
UPPER FLAMMABLE LIMIT: Not Determined.  
LOWER FLAMMABLE LIMIT: Not Determined.  
EXTINGUISHING MEDIA: CO<sub>2</sub>, dry chemical, foam.

SPECIAL FIREFIGHTING PROCEDURES: None  
UNUSUAL FIRE & EXPLOSION HAZARDS: None

**SECTION 3 - HEALTH HAZARD DATA**

ORAL TOXICITY: LD 50 greater than 5000 mg/kg in rats. Based on data from components.  
EYE IRRITATION: May cause eye irritation.  
SKIN IRRITATION: May cause skin irritation.  
OTHER: Unknown.  
TLV: None established. Oil mist TLV 5mg/m<sup>3</sup>.

**FIRST AID PROCEDURES**

SKIN: Wash well with soap and water.  
EYE: Flush well with water. If irritation persists, see a physician.  
INHALATION: Remove to fresh air. See a physician if irritation persists.  
ORAL: Call a physician. Do not induce vomiting.  
ADDITIONAL: None.

**SECTION 4 - SPECIAL PROTECTION INFORMATION**

VENTILATION PROCEDURE: Mechanical ventilation recommended.  
GLOVES PROTECTION: Neoprene or nitrile rubber gloves recommended.  
EYE PROTECTION: Safety glasses.  
OTHER PROTECTION: Long-sleeved shirt.

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SECTION 5 - PHYSICAL DATA

VAPOR PRESSURE: Not Determined  
SPECIFIC GRAVITY: 0.97  
WATER SOLUBILITY: Insoluble  
PERCENT VOLATILE: Not Determined.  
VAPOR DENSITY: Not Determined.  
EVAPORATION RATE: Not Determined.  
ODOR: Mild.  
APPEARANCE: Red oily liquid.

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SECTION 6 - STABILITY

STABILITY: Stable  
INCOMPATIBILITY: Oxidizing agents  
POLYMERIZATION: Will not occur.  
THERMAL DECOMPOSITION: Oxides of carbon, phosphorous, zinc, calcium, and sulfur. Hydrogen Sulfide and alkyl mercaptans may also result.

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SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: Prevent entry into sewers and waterways. Pick up free liquid for disposal. Absorb small amounts on inert material for disposal.

WASTE DISPOSAL: If disposed of, this material is not believed to be a characteristic hazardous waste under RCRA.. Disposal should be in compliance with federal, state, and local laws.

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SPECIAL PRECAUTIONS

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TRANSPORTATION AND LABELING

DOT PROPER SHIPPING NAME: Not Applicable.  
DOT HAZARD CLASS: Not Applicable.  
DOT ID NUMBER (UN NO.): None  
IMO CLASS: Not Applicable.  
SARA EXT. HAZ. SUBSTANCES: This product is not known to contain greater than 1.0% of any chemical substance on this list.  
SARA SECTION 313: 10 to 20% Zinc compounds containing 2% Zinc.  
U.S. TSCA INVENTORY: All components are included on the U.S. TSCA Inventory.  
PRECAUTIONARY LABELS: None