



MATERIAL SAFETY DATA SHEET (MSDS)

Version: Revision 2, March 08, 2008

This product must be used only for its intended application in automotive internal combustion engines as an engine oil additive and at its intended treat rate.

This information relates to the specific material described within this Material Safety Data Sheet and may not be valid if this material is used in combination with any other material or in any process or in any application other than the intended application. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cam-shield Oil treatment

CHEMICAL FAMILY: Petroleum Product Additive

PRODUCT DESCRIPTION: Engine oil additive containing Zinc dialkyl dithiophosphate in highly refined mineral oil base

CONTACT ADDRESS:

Cam-shield Lubricants

PO Box 284

Annandale, NJ 08801

1-866-677-7670, FAX 908-832-0824

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

The composition of this mixture is proprietary. This product is hazardous as defined in 29CFR1910.1200, based on the following compositional information:

<u>OSHA HAZARD</u>	<u>COMPONENT</u>
Eye irritant	Zinc salt of dialkyl dithiophosphoric acid
ACGIH TLV/ OSHA PEL	Mineral oil mist

SECTION 3 HAZARDS IDENTIFICATION

EYE CONTACT: Severe irritation. If not removed promptly, will injure eye tissue, which may result in permanent damage.

SKIN CONTACT: Frequent or prolonged contact may irritate. Low order of toxicity.

INHALATION: Negligible hazard at normal temperatures (0F to 100F). Warning: do not overheat this product, especially in the presence of water, hydrogen sulfide may be released without necessarily any warning odor being sensed; this can cause respiratory collapse, coma and death. Avoid breathing vapors or mists. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma, inflammation and increased incidence of infection.

INGESTION: Low order of toxicity.

NFPA HAZARD RATINGS:

Health = 3, Flammability = 1, Reactivity = 1

(0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe)

SECTION 4 FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with large amounts of water for at least 15 minutes. Seek prompt medical attention.

SKIN CONTACT: Immediately flush affected skin areas with large amounts of water, use soap if available. Remove contaminated clothing, including footwear and gloves, after flushing has begun.

INHALATION: Use proper respiratory protection. Immediately remove affected person from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek prompt medical attention.

INGESTION: DO NOT induce vomiting. If person is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. DO NOT attempt to give anything by mouth to an unconscious person. Seek prompt medical attention.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: 230 F typical (Method: ASTM D93 Pensky Martin Closed Cup)

Liquid can burn upon heating to flashpoint temperature or above. If thermally decomposed, flammable/toxic gases may be released. Toxic gases will form upon combustion. Empty containers contain product residue and should not be exposed to heat, flames, sparks or other sources of ignition. Do not pressurize, cut, heat, or weld containers. Completely drain and properly dispose of empty containers. Do not reuse empty containers.

FIRE FIGHTING: use foam, dry chemical, or water to extinguish fire. Use water spray to cool fire exposed surfaces and to protect personnel. Fire fighting personnel must wear respiratory protection equipment and eye protection equipment.

SECTION 6 ACCIDENTAL RELEASES

LAND SPILL: Eliminate sources of ignition. Safely prevent further discharge of material, if possible. For small spills, implement cleanup procedures; contain spilled material with sand or earth or suitable absorbent. For large spills, advise authorities and consult an expert on recovery and disposal of material. Prevent material from entering sewers or waterways.

WATER SPILL: Material will sink. Consult an expert on recovery and disposal of material.

SECTION 7 STORAGE AND HANDLING

STORAGE TEMPERATURE: room temperature (minimum 40F, maximum 90F)

HANDLING TEMPERATURE: room temperature (minimum 60F, maximum 90F)

Keep container closed with both caps on when not in use. Handle open container with care. Store in a cool, dry, well ventilated location. Do not overheat the material. Handle and store away from open flame, heat, or other sources of ignition. Protect material from direct sunlight. Do not pressurize, cut, heat, or weld containers. Completely drain and properly dispose of empty containers. Do not reuse empty containers.

SECTION 8 PERSONAL PROTECTION

Use in a well ventilated area. Wear protective gloves. Wear eye protection and face shield where eye or face contact may occur. Do not overheat this material. Where concentration in air may exceed the OSHA limit below, wear NIOSH approved respirator to prevent inhalation overexposure.

OSHA Regulation 29CFR1910.1000 Permissible Exposure Limit: A TWA of 5mg/cubic meter for oil mists, mineral

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY: 1.12 at 60F

DENSITY: 9.3 pounds per gallon at 60F

VAPOR PRESSURE: negligible at ambient temperature

SOLUBILITY IN WATER: negligible

EVAPORATION RATE: negligible

BOILING POINT: minimum 500 F initial boiling point

SECTION 10 STABILITY

STABILITY: stable.

CONDITIONS TO AVOID: avoid temperatures above 140F.

HAZARDOUS POLYMERIZATION: will not occur

MATERIALS TO AVOID: strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Sulfide (H₂S) (toxic and explosive)

SECTION 11 TRANSPORT INFORMATION

This product is not U.S. Department of Transportation (DOT) regulated.

SECTION 12 REGULATORY

This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharges or spills which produce a visible sheen on either surface water or sewers or waterways must be reported to the National Response Center at 800-424-8802.

TSCA: all components of this material are listed on the TSCA inventory.

CERCLA: if accidentally spilled, not subject to special reporting as required by CERCLA. However, local authorities must be contacted to determine local reporting requirements.

SARA Title III: SARA Title III Sections 311/312 health category: Immediate Health. Section 313 Reportable ingredients: Zinc compounds, CAS # N/A, Max % = 80.

SECTION 13 OTHER INFORMATION

DO HEAT THIS PRODUCT. This product is temperature sensitive and will undergo exothermic decomposition leading to the release of highly toxic Hydrogen Sulfide and extremely odorous Alkyl Mercaptans. Alkyl Mercaptans can be smelled at extremely low concentrations and vapors may travel for many miles at detectable concentrations. DO NOT store in bulk tanks as lethal concentrations of Hydrogen Sulfide could accumulate in head spaces.

Do not store below 40 F as some crystallization of this product may occur. Storage temperatures above 100 F will lead to degradation of this products functional quality. Do not use past the expiration date on the product container.

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