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In Case of Emergency +1-800-424-9300 (US/Canada) +1-703-527-3887 (Int) Page: 8/11 Experimental Engine Oil Finished Fluid 1Y with ZDDP

# Section 11. Toxicological information

: No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

: No specific data. Eye contact Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Product/ingredient name	Test	Species	Dose	Exposure	Result	Remarks
Zinc dialkyl dithiophosphate	422 Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test	Rat	160 mg/kg		Sub-acute NOAEL Oral	Based on data for a similar substance.

Conclusion/Summary

: Not available.

General

: No known significant effects or critical hazards.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity **Developmental effects**  : No known significant effects or critical hazards. : No known significant effects or critical hazards.

**Fertility effects** 

: No known significant effects or critical hazards.

# Section 12. Ecological information

# **Toxicity**

Product/ingredient name	Result	Species	Exposure	Remarks
Mineral oil	Acute EL50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	Based on data for a similar substance.
	Acute LL50 >100 mg/	Fish - Pimephales promelas	96 hours	Based on data for a similar substance.
	Chronic NOEL ≥100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	Based on data for a similar
	Chronic NOEL 10	Daphnia - Daphnia magna	21 days	substance. Based on data

In Case of Emergency +1-800-424-9300 (US/Canada) +1-703-527-3887 (Int'I) Page: 6/11 Experimental Engine Oil Finished Fluid 1Y with ZDDP Section 10. Stability and reactivity

: Strong oxidizing and reducing agents. Incompatible materials

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Test	Result	Species	Dose	Exposure	Remarks
Mineral oil	403 Acute Inhalation	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours	
	Toxicity 402 Acute Dermal Toxicity	LD50 Dermal	Rabbit	>5000 mg/kg	gwern 15	Based on data for a similar substance.
	401 Acute Oral Toxicity	LD50 Oral	Rat	>5000 mg/kg	-	Based on data for a similar substance.
Zinc dialkyl dithiophosphate	403 Acute Inhalation Toxicity	LC50 Inhalation Vapor	Rat	>2.3 mg/l	4 hours	Based on data for a similar substance.
	None available.	LD50 Dermal LD50 Oral	Rabbit Rat	>3160 mg/kg 3100 mg/kg		Based on data for a similar substance.

Conclusion/Summary

: Not available.

### Irritation/Corrosion

Product/ingredient name	Test	Species	Result	Remarks
Zinc dialkyl dithiophosphate	404 Acute Dermal Irritation/Corrosion 405 Acute Eye Irritation/Corrosion	Rabbit Rabbit	Skin - Irritant  Eyes - Severe irritant	Based on data for a similar substance.

Conclusion/Summary

Skin

Eyes

: Causes mild skin irritation. : Non-irritating to the eyes. Based on test data for this or similar products.

: Not available.

Respiratory

Sensitization

Product/ingredient name	Test	Route of exposure	Species	Result	Remarks
Zinc dialkyl dithiophosphate	406 Skin Sensitization	skin	Guinea pig	Not sensitizing	Based on data for a similar substance.

Conclusion/Summary

Skin

: Not available.

Respiratory

: Not available.

Mutagenicity

# Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

: Put on appropriate personal protective equipment (see Section 8).

## Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

> The following information is provided for health and safety purposes. Please refer to individual product specification documents for quality-related storage and handling. Preferred storage temperature is between ambient and 70°C.

Exposure to elevated temperatures will increase the rate of hydrogen sulfide (H2S) and mercaptan generation.

Temperatures above 90°C should be avoided unless an appropriate engineering review has been conducted on the process.

# Section 8. Exposure controls/personal protection

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

### Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
Mineral oil  mas as a sectional last title begins o but Moran bott television television of the Botto-Moran bott television of the Botto-Moran between a set to be on a set to be of the office and the the office	OSHA PEL (United States, 6/2016).  TWA: 5 mg/m³ 8 hours.  ACGIH TLV (United States, 3/2017).  TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction

### Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

### Skin protection

Experimental Engine Oil Finished Fluid 1Y with ZDDP

In Case of Emergency +1-800-424-9300 (US/Canada) +1-703-527-3887 (Intil)

Page: 2/11

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	CAS number	Conc. (% w/w)	US GHS Classification
Mineral oil Zinc dialkyl dithiophosphate	Mixture 68649-42-3	60 - 100 1 - 10	Not classified. SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

Any concentration shown as a range is to protect confidentiality or is due to batch variation. If specific chemical identify is withheld, it is to protect confidentiality.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

### Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation

: If inhaled, remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vamiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

: No known significant effects or critical hazards. Eye contact Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

## Over-exposure signs/symptoms

Eye contact : No specific data. : No specific data. Inhalation : No specific data. Skin contact Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)