

# Safety Data Sheet

### Experimental Engine Oil Finished Fluid 1Y with ZDDP

SDS no. EXP-EO-FF-ZDDP-1Y

R&D Only

Date of issue/Date of 6/11/2020 revision

## Section 1. Identification

**GHS** product identifier

: Experimental Engine Oil Finished Fluid 1Y with ZDDP

**Product use** 

: Petrochemical industry: Lubricating oil

### In case of emergency - Chemical

0800-70-77-022 (Brazil) 01-800-681-9531 (Mexico)

+1-703-527-3887 (International)

+1-703-741-5979 (Spanish language)

+1-800-424-9300 (US & Canada)

### Manufacturer / Supplier

Afton Chemical Corporation 500 Spring St. Richmond, VA 23219 USA

5045 South Service Road Suite 101 Burlington, ON L7L 5Y7

Afton Chemical Canada Corporation

905-631-5470

Non-Emergency Telephone: +1-804-788-5800

## Section 2. Hazards identification

### **OSHA/HCS** status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

# Classification of the substance or mixture

: Not classified.

### **GHS label elements**

Signal word

: No signal word.

**Hazard statements** 

: No known significant effects or critical hazards.

### Precautionary statements

Prevention

: Not applicable.

Response

: Not applicable.

Storage Disposal : Store in well-ventilated place.

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Additional hazards** 

: When heated above 90°C (194°F), thermal decomposition may occur producing CO, CO2, phosphorus oxides, metal oxide/ oxides, hydrogen sulfide.

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media

: In case of fire, use water spray (fog), foam, dry chemical or CO2.

Unsuitable extinguishing

: Do not use water jet.

# Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

# Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Take precautions to limit storage vessel surface temperature to below 121°C (250°F).

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

 Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 8. Exposure controls/personal protection

: Chemical-resistant, impervious gloves complying with an approved standard should be Hand protection worn at all times when handling chemical products if a risk assessment indicates this is necessary. **Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

: Appropriate footwear and any additional skin protection measures should be selected Other skin protection based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Based on the hazard and potential for exposure, select a respirator that meets the Respiratory protection appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

# Section 9. Physical and chemical properties

**Appearance** : Liquid. Physical state

: Amber. to Brown Color

Odor : Aromatic.

: Not available. Odor threshold : Not available. pH : Not available. **Melting** point

: Not available. **Boiling** point : Closed cup: >93.3°C (>199.9°F) [Pensky-Martens. Minimum] Flash point

: Not available. **Evaporation rate** : Not available. Flammability (solid, gas)

: Not available. Lower and upper explosive

(flammable) limits

: Not available. Vapor pressure : Not available. Vapor density : Not available. Relative density : Not available. Solubility

Partition coefficient: noctanol/water

**Auto-ignition temperature** 

: Not available. : Not available.

: Not available.

**Decomposition temperature** Viscosity

: Not available. Not available.

**Explosive properties Oxidizing properties** 

: Not available. : Not available.

## Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

: The product is stable. Chemical stability

: Under normal conditions of storage and use, hazardous reactions will not occur. Possibility of hazardous reactions

Conditions to avoid : High temperatures, sparks and open flames.

# Section 11. Toxicological information

Product/ingredient name	Test Manual Anthony	Experiment	Result	Remarks
Zinc dialkyl dithiophosphate	None available.	Experiment: In vitro Subject: Mammalian-Animal	Positive	Based on data for a similar substance. WOE does not support
	476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Positive	classification Based on data for a similar substance. WOE does not support
	471 Bacterial Reverse	Experiment: In vitro Subject: Bacteria	Negative	classification Based on data for a similar substance.
	Mutation Test None available.	Experiment: In vitro Subject: Mammalian-Animal	Negative	Based on data for a similar substance.
	476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative	Based on data for a similar substance.
	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative	Palyande Manada

Conclusion/Summary

Carcinogenicity

Conclusion/Summary

Classification

Reproductive toxicity

: Not available.

: Not available.

Product/ingredient name	Test	Route of exposure	Species	Maternal toxicity	Fertility	Development toxin	Remarks
Zinc dialkyl dithiophosphate	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative	Based on data for a similar substance.

Conclusion/Summary

: Not available.

**Teratogenicity** 

Product/ingredient name	Test	Species	Result	Remarks
Zinc dialkyl dithiophosphate	None available.	Rat	Negative - Oral	Based on data for a similar substance.

Conclusion/Summary

: Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Not available.	mation	ogical Info	ord A. Er nous

### Specific target organ toxicity (repeated exposure)

Name adminal au soqual	Category	Route of exposure	Target organs
- Deplete money - Last tours - Engel on vinter	strate Landon	exposure	No trade
Not available.		hem	

Information on the likely routes of exposure

: Skin, Eyes, Ingestion, and Inhalation

Potential acute health effects

Eye contact

Inhalation

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

### Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

### Persistence and degradability

Not available.

Product/ingredient name	Test	Result	Remarks	METHEVE
Mineral oil	OECD 301F Ready Biodegradability - Manometric Respirometry Test	31 % - Not readily - 28 days	Based on data fo substance.	r a similar

capricornutum

#### Bioaccumulative potential

Not available.

# Section 13. Disposal considerations

### Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	TDG Classification	IMDG		IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not r	egulated.
UN proper shipping name	E ( What and y an are)		: None of the co-ru	- LEADTH POLICE	Industrial ARE policed lawring
Transport hazard class(es)	-	-	Dardineral to Market to Ma	~	- saladian abasa anno apaga

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# Section 15. Regulatory information

Republic of Korea : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Taiwan : Not determined.

United States Active : All components are active or exempted.

: For information on compliance with regulation (EC) No. 1907/2006 (REACH) and

amendments please contact your Afton representative.

### Section 16. Other information

### History

Date of issue/Date of revision

Prepared by

Europe

: 6/11/2020

Key to abbreviations

: EHS Department (Tel: +1 804 788 5800) : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations WOE = Weight of Evidence

Indicates information that has changed from previously issued version.

#### Notice to reader

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