



SAFETY DATA SHEET

Issue Date 4/15/2015

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Version 2

1. IDENTIFICATION

Product identifier

Product Name: ALLSYN ENGINE OIL 5W30

Other means of identification

Product code: FS-417

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Lubricant.

Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier Address

FRONTIER PERFORMANCE LUBRICANTS INC

PO BOX 1777

LODI, CA 95241

Phone: (800)-807-4496

Fax: (209)-334-6408

Emergency telephone number

Emergency Telephone: PERS (800)-633-8253

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 2A

Label elements

EMERGENCY OVERVIEW

Signal word

Warning

Hazard statements

Causes serious eye irritation



Appearance Oil

Physical state Liquid

Odor Mild

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)**Other information**

- Causes mild skin irritation

- Toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

6.75% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Components | CAS-No | Weight % | Trade Secret |
|---------------------------|------------|----------|--------------|
| Petroleum process oil | 64742-52-5 | 1-10 | * |
| Zinc Alkyldithiophosphate | 84605-29-8 | 0-2 | * |

4. FIRST AID MEASURES**First aid measures**

Eye contact: Flush eye with water for 15 minutes. Call a physician immediately.

Skin contact: Wash off immediately with soap and plenty of water.

Inhalation: Move to fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary.

Ingestion: Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

In the event of fire, cool tanks with water spray.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Contaminated surfaces will be extremely slippery. Avoid contact with the skin and the eyes.

Environmental precautions

Environmental precautions: Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Spilling onto the container's outside will make container slippery. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes and skin.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers dry and tightly closed to avoid moisture absorption and contamination

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

| Components | ACGIH TLV | OSHA (TWA mg/m ³): | IDLH: |
|------------------------------------|--------------------------------|--------------------------------|-------|
| Petroleum process oil - 64742-52-5 | 5 mg/m ³ (oil mist) | 5 mg/m ³ (oil mist) | |

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Nitrile rubber

Eye protection: Safety glasses with side-shields

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect

General Hygiene Considerations: Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Oil

Odor: Mild

Color: Amber

Odor threshold: No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-------------------------------------|--------------------------|-------------------------|
| Melting point/freezing point | No information available | |

| | |
|--------------------------------------|-------------------|
| pH | Not applicable |
| Boiling point / boiling range | > 315 °C / 600 °F |

| | | | | |
|-------------------------------------|--------------------------|--------------------------|----------------------------------|--------------------------|
| Flash point | > 204 °C / 400 °F | Cleveland Open Cup | Evaporation rate | No information available |
| Flammability (solid, gas) | No information available | | Flammability Limit in Air | |
| Upper flammability limit: | No information available | | Lower flammability limit: | No information available |
| Vapor pressure | No information available | | Vapor density | No information available |
| Specific Gravity | < 1.0 | | Water solubility | Insoluble in water |
| Solubility in other solvents | No information available | | Partition coefficient | No information available |
| Autoignition temperature | No information available | | Decomposition temperature | No information available |
| Kinematic viscosity | No information available | | Dynamic viscosity | No information available |
| Explosive properties | | No information available | | |
| Oxidizing properties | | No information available | | |

Other information

| | |
|-------------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |
| Density | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions: None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid: No special storage conditions required

Hazardous Decomposition Products

Hazardous Decomposition Products: Incomplete combustion may produce small amounts of carbon oxides

Incompatible materials

Incompatible materials: Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|-----------------------------|--|
| Product Information: | Product does not present an acute toxicity hazard based on known or supplied information |
| Eye contact: | Moderately irritating to the eyes. |
| Skin contact: | Substance does not generally irritate and is only mildly irritating to the skin. |

Inhalation: Avoid breathing vapors or mists.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

| Components | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------------------|----------------------|-------------------------|-----------------|
| Zinc Alkyldithiophosphate -84605-29-8 | = 2000 mg/kg (Rat) | > 3200 mg/kg (Rabbit) | - |

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: No sensitization responses were observed.
Mutagenic effects: Did not show mutagenic or teratogenic effects in animal experiments.
Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity: This product does not contain any known or suspected reproductive hazards.
STOT - Single Exposure: None under normal use conditions.
STOT - Repeated Exposure: None under normal use conditions.
Aspiration hazard: Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity: 6.75% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral): 11205 mg/kg

ATEmix (dermal): 5455 mg/kg

ATEmix (inhalation-dust/mist): 18.5 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

2.62% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Petroleum process oil -64742-52-5 | |
|---------------------------------------|--|
| Algae/aquatic plants | - |
| Fish | 5000: 96 h Oncorhynchus mykiss mg/L LC50 |
| Crustacea | 1000: 48 h Daphnia magna mg/L EC50 |
| Zinc Alkyldithiophosphate -84605-29-8 | |
| Algae/aquatic plants | - |
| Fish | 10 - 100: 96 h Pimephales promelas mg/L LC50 static 38: 96 h Pimephales promelas mg/L LC50 100: 96 h Pimephales promelas mg/L LC50 semi-static |
| Crustacea | 0.1 - 1: 48 h Daphnia magna mg/L EC50 |

Persistence and degradability

Inherently biodegradable. (based on components).

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Do not reuse container.

14. TRANSPORT INFORMATION

DOT: Not Regulated by any means of transportation

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed in TSCA
DSL: All of the components in this product are listed in DSL
EINECS/ELINCS: This product complies with EINECS/ELINCS
CHINA: This product complies with China IECSC.
KECL: This product complies with Korea KECL.
PICCS: This product complies with Philippines PICCS.
AICS: All the constituents of this material are listed on the Australian AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Components | SARA 313 Threshold: |
|---------------------------|---------------------|
| Zinc Alkyldithiophosphate | 1% |

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

| Components | NJRTK: | MARTK: | PARTK: |
|---------------------------------------|--|------------|------------|
| Petroleum process oil -64742-52-5 | Substance no. 1437 Listed. Substance no. 4004 Listed. | Not Listed | Not Listed |
| Zinc Alkyldithiophosphate -84605-29-8 | Substance no. 3012 Listed | Not Listed | Listed |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

| |
|------------------------------|
| 16. OTHER INFORMATION |
|------------------------------|

Nfpa

Health: 1

Flammability: 1

Instability: 0

NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *

HMIS health rating

Health: 1

Flammability: 1

Physical hazards: 0

Personal protection: B

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Revision Note

Not applicable

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet