

SAFETY DATA SHEET

Issuing Date 10-14-2019

Revision Date 11-12-2019

Revision Number 1.1

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Identifier

Product Name AWARD Synthetic Trans Fluid TO-4 MG

Other means of identification

Product Code(s) PTR0166AB

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Restrictions on use Consumer use

Details of the supplier of the safety data sheet

Initial Supplier Identifier

Manufacturer

AFD Petroleum Ltd.
1444 78 Avenue NW
Edmonton, AB Canada T6P 1L7
afdpetroleum.com

Emergency Telephone Number

Emergency Telephone Number CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

2. HAZARDS IDENTIFICATION

Classification

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements

Hazard statements

Not classified.

Other Information

Harmful to aquatic life with long lasting effects Harmful to aquatic life

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical name | CAS No. | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--|------------|----------|--|---|
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | 68037-01-4 | 60 - 70% | - | |
| Mineral Oil | 8042-47-5 | 0 - 10% | - | |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | 68649-42-3 | 0 - 10% | - | |

The producer of "PTR0166AB" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES

First Aid Measures

| | |
|---------------------|---|
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary. |
| Ingestion | Do NOT induce vomiting. Drink plenty of water. |

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

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5. FIRE FIGHTING MEASURES

| | |
|---|--|
| Suitable Extinguishing Media | Water spray. Carbon dioxide (CO2). Foam. Dry chemical. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
| Specific hazards arising from the chemical | Thermal decomposition can lead to release of irritating gases and vapors. |
| Explosion Data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | May be ignited by friction, heat, sparks or flames. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
| NFPA | Health hazard 1 Flammability 1 Stability 1 |

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|---|
| Personal precautions | Do not touch damaged packages or spilled material. Wear protective gloves/protective clothing and eye/face protection. Ensure adequate ventilation. Remove all sources of ignition. |
| Other information | Refer to protective measures listed in Sections 7 and 8. See Section 12 for additional Ecological Information. |

Methods and material for containment and cleaning up

| | |
|--|--|
| Methods for containment | Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. |
| Methods for cleaning up | Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------------|--|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. See section 8 for more information. |
|--------------------------------|--|

Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|--|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| Incompatible products. | Strong oxidizing agents. Strong acids. Strong bases. |

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

| Chemical name | Alberta | British Columbia | Ontario TWAEV | Quebec |
|--------------------------|--|--|----------------------------------|--|
| Mineral Oil 8042-47-5 | TWA: 5 mg/m ³ STEL: 10 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ | TWA: 5 mg/m ³ TWA: | TWA: 5 mg/m ³ STEL: 10 mg/m ³ |

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|----------------|--------------------------|
| Physical state | liquid |
| appearance | amber |
| Color | No information available |
| Odor | No information available |
| Odor threshold | No information available |

Property

Property

Remarks • 1 litre of liquid placed under atmospheric pressure gives a volume of vapour of approximately ? litres.

| | |
|--|--------------------------|
| pH VALUE | 6 - 8 |
| Melting Point / Freezing Point | No data available |
| Boiling Point/Range | No data available |
| Flash Point | 262 °C / 504 °F |
| Flashpoint Method | No information available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Flammability Limits in Air | No data available |
| Upper flammability limit: | No data available |
| Lower Flammability Limit | No data available |
| Vapor pressure | No data available |
| Vapor Density | No data available |
| Relative Density | 0.862 |
| Water solubility | negligible |
| Solubility in other solvents | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Autoignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity, kinematic | 66 cSt @ 40°C |
| Viscosity, dynamic | No data available |

Other information

| | |
|----------------------|---------------------------|
| Explosive properties | No information available. |
| Oxidizing properties | No information available. |
| Softening Point | No information available |
| Density VALUE | No data available |
| Bulk Density | No data available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Reactivity | No information available. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Conditions to Avoid | Heat, flames and sparks. Contact with other chemicals. |
| Incompatible Materials | Strong oxidizing agents, strong acids, and strong bases. |
| Hazardous Decomposition Products | Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). |

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|---|
| Inhalation | May cause irritation of respiratory tract. |
| Eye contact | May cause eye irritation with susceptible persons. |
| Skin contact | May cause sensitization in susceptible persons. |
| Ingestion | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Information on toxicological effects

Symptoms No information available.

Acute Toxicity

Numerical measures of toxicity
No information available

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

| | |
|------------------------|----------------|
| ATEmix (oral) | 6,521.60 mg/kg |
| ATEmix (dermal) | 5,256.98 mg/kg |

Unknown acute toxicity No information available

Component Information

| Chemical name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------|---|-------------|------------------------|
| Mineral Oil 8042-47-5 | > 5000 mg/kg (Rat) > 24 g/kg (Rat) | - | = 2062 ppm (Rat) 4 h |

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

| | |
|--|---------------------------|
| Skin corrosion/irritation | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |

The producer of "PTR0166AB" declares that it contains less than 3% DMSO extractable material by IP-346

| | |
|---------------------------------|---------------------------------|
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Target Organ Effects | Respiratory system, Eyes, Skin. |

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Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity The environmental impact of this product has not been fully investigated.

| Chemical name | Algae/aquatic plants | Toxicity to Fish | Toxicity to Microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|---|----------------------|--|----------------------------|---|
| Mineral Oil 8042-47-5 | . | LC50 > 10000 mg/L Lepomis macrochirus 96 h | - | - |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3 | . | LC50 1.0 - 5.0 mg/L Pimephales promelas 96 h LC50 10.0 - 35.0 mg/L Pimephales promelas 96 h | - | EC50 1 - 1.5 mg/L 48 h |

Persistence and Degradability No information available.

Bioaccumulation No information available.

Component Information

| Chemical name | Log Pow |
|--------------------------|---------|
| Mineral Oil 8042-47-5 | >6 |

Other Adverse Effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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14. TRANSPORT INFORMATION

TDG Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer not applicable

The Stockholm Convention on Persistent Organic Pollutants not applicable

The Rotterdam Convention not applicable

International Inventories

| | |
|---------------|----------------|
| TSCA | Not determined |
| DSL/NDL | Not determined |
| EINECS/ELINCS | Not determined |
| ENCS | Not determined |
| IECSC | Not determined |
| KECL | Not determined |
| PICCS | Not determined |
| AICS | Not determined |

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

NFPA Health hazard 1 Flammability 1 Stability 1

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16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|----------|-----------------------|-------|---------------------------|
| TWA: | Time weighted average | STEL: | Short term exposure limit |
| Ceiling: | Maximum limit value: | * | Skin designation |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 World Health Organization

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Revision Note Product Name.

Disclaimer

The information provided in this Material 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