



# SAFETY DATA SHEET

US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 10-Jun-2024      Revision Date 10-Jun-2024      Revision Number 1

## 1. Identification

**Product identifier**

Product Name 100% Synthetic Manual Synchromesh Transmission Fluid

**Other means of identification**

Product Code(s) MTF

Synonyms None

**Recommended use of the chemical and restrictions on use**

Recommended use Transmission fluid

Restrictions on use No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**  
AMSOIL INC.  
Bay Adelaide Centre, East Tower  
22 Adelaide St. W  
Toronto, ON, Canada M5H 4E3  
T: +1 877-822-5172

**Manufacturer Address**  
AMSOIL INC.  
One AMSOIL Center  
Superior, WI 54880, USA  
T: +1 715-392-7101

E-mail compliance@amsoil.com

**Emergency telephone number**

Emergency telephone CHEMTREC: Within USA and Canada: 1-800-424-9300  
Outside the USA and Canada: +1 703-741-5970  
(collect calls accepted) 24/7

## 2. Hazard(s) identification

**Classification**

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015).

**Label elements**

Hazard statements  
Not classified.

**Other information**

May be harmful in contact with skin. Causes mild skin irritation.

**3. Composition/information on ingredients**

**Substance**

Not applicable.

**Mixture**

The product contains no substances which at their given concentration are considered to be hazardous to health.

**Chemical Additions**

The classification as a carcinogen does not apply as it can be shown that the substance(s) contain(s) less than 3% DMSO extract as measured by IP 346.

**4. First-aid measures**

**Description of first aid measures**

|                                    |                                                                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.                                                                                 |
| Inhalation                         | Remove person to fresh air and keep comfortable for breathing.                                                                                                                                |
| Eye contact                        | Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Skin contact                       | Wash skin with soap and water. Take off contaminated clothing. Get medical attention if irritation develops and persists.                                                                     |
| Ingestion                          | Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.                                                                                                   |
| Self-protection of the first aider | Wear personal protective clothing (see section 8).                                                                                                                                            |

**Most important symptoms and effects, both acute and delayed**

|                     |                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms            | May cause temporary eye irritation. May cause gastrointestinal discomfort if consumed in large amounts. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness and difficulty breathing. |
| Effects of Exposure | No information available.                                                                                                                                                                                                                                                                                                                       |

**Indication of any immediate medical attention and special treatment needed**

|                    |                        |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

**5. Fire-fighting measures**

|                              |                                                                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media | Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                |                                                                                                                                                            |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable extinguishing media                                 | Do not use a solid water stream as it may scatter and spread fire.                                                                                         |
| Specific hazards arising from the chemical                     | Containers can burst or explode when heated, due to excessive pressure build-up. Thermal decomposition can lead to release of irritating gases and vapors. |
| Hazardous combustion products                                  | Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).                                                                                         |
| Explosion data                                                 |                                                                                                                                                            |
| Sensitivity to mechanical impact                               | None.                                                                                                                                                      |
| Sensitivity to static discharge                                | None.                                                                                                                                                      |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.                         |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

|                          |                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| Personal precautions     | Use personal protective equipment as required. See section 8 for more information. Ensure adequate ventilation. |
| For emergency responders | Use personal protection recommended in Section 8.                                                               |

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     | Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Clean contaminated surface thoroughly. After cleaning, flush away traces with water. |
| Reference to other sections | For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations.                                                                                                                                                     |

7. Handling and storage

Precautions for safe handling

|                         |                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with used product. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Conditions for safe storage, including any incompatibilities

|                    |                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Do not reuse empty containers. Store away from incompatible materials. See section 10 for more information. Protect from physical damage. |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

8. Exposure controls/personal protection

Control parameters

|                 |                                                                                                                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Limits | Under conditions which may generate mists, the following exposure limits are recommended: Long-term exposure limit (8-hour TWA): 5 mg/m³. Short-term exposure limit (15-minute): 10 mg/m³. |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                                                              |                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biological occupational exposure limits                                      | This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.                                                                |
| <u>Appropriate engineering controls</u>                                      |                                                                                                                                                                                                                 |
| Engineering controls                                                         | Ensure adequate ventilation, especially in confined areas.                                                                                                                                                      |
| <u>Individual protection measures, such as personal protective equipment</u> |                                                                                                                                                                                                                 |
| Eye/face protection                                                          | If there is a risk of contact: Wear safety glasses with side shields (or goggles).                                                                                                                              |
| Hand protection                                                              | If there is a risk of contact: Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. |
| Skin and body protection                                                     | If there is a risk of contact: Wear suitable protective clothing.                                                                                                                                               |
| 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.                                        |
| Environmental exposure controls                                              | Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.                                                                                             |
| General hygiene considerations                                               | Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.                 |

9. Physical and chemical properties

Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Appearance     |                          |
| Physical state | Liquid                   |
| Color          | Amber                    |
| Odor           | Mild hydrocarbon         |
| Odor threshold | No information available |

| Property                                | Values            | Remarks • Method             |
|-----------------------------------------|-------------------|------------------------------|
| pH                                      |                   | No data available            |
| Melting point / freezing point          |                   | No data available            |
| Initial boiling point and boiling range |                   | No data available            |
| Flash point                             | 218 °C / 424.4 °F | Cleveland Open Cup ASTM D 92 |
| Evaporation rate                        |                   | No data available            |
| Flammability                            |                   | No data available            |
| Flammability Limit in Air               |                   |                              |
| Upper flammability or explosive limits  |                   | No data available            |
| Lower flammability or explosive limits  |                   | No data available            |
| Vapor pressure                          |                   | No data available            |
| Relative vapor density                  |                   | No data available            |
| Relative density                        | 0.8639            | No data available            |
| Water solubility                        |                   | No data available            |
| Solubility(ies)                         |                   | No data available            |



|                           |                                       |
|---------------------------|---------------------------------------|
| Partition coefficient     | No data available                     |
| Autoignition temperature  | No data available                     |
| Decomposition temperature | No data available                     |
| Kinematic viscosity       | 49.4 cSt @ 40 °C<br>10.1 cSt @ 100 °C |
| Dynamic viscosity         | ASTM D445                             |
|                           | No data available                     |

Other information

|                      |                           |
|----------------------|---------------------------|
| Explosive properties | No information available. |
| Oxidizing properties | No information available. |
| Softening point      | No information available  |
| Pour Point           | -48 °C [ASTM D 97]        |
| Fire Point           | 238 °C (COC)[ASTM D 92]   |
| Molecular weight     | No information available  |
| VOC content          | No information available  |
| Liquid Density       | No information available  |
| Bulk density         | No information available  |

10. Stability and reactivity

|                                    |                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | None under normal use conditions.                                                                                                            |
| Chemical stability                 | Stable under normal conditions.                                                                                                              |
| Possibility of hazardous reactions | None under normal processing.                                                                                                                |
| Conditions to avoid                | None known based on information supplied.                                                                                                    |
| Incompatible materials             | None known based on information supplied.                                                                                                    |
| Hazardous decomposition products   | Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). |

11. Toxicological information

Information on likely routes of exposure

|              |                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available.                                                                   |
| Eye contact  | Specific test data for the substance or mixture is not available.                                                                   |
| Skin contact | Specific test data for the substance or mixture is not available. Causes mild skin irritation. May be harmful in contact with skin. |
| Ingestion    | Specific test data for the substance or mixture is not available.                                                                   |

Symptoms related to the physical, chemical and toxicological characteristics

|          |                                                     |
|----------|-----------------------------------------------------|
| Symptoms | Prolonged contact may cause redness and irritation. |
|----------|-----------------------------------------------------|

Acute toxicity

Numerical measures of toxicity

|                                                                               |          |       |
|-------------------------------------------------------------------------------|----------|-------|
| The following values are calculated based on chapter 3.1 of the GHS document: |          |       |
| ATEmix (oral)                                                                 | 9,276.40 | mg/kg |
| ATEmix (dermal)                                                               | 3,920.80 | mg/kg |



ATEmix (inhalation-dust/mist) 11.10 mg/l

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

|                                   |                                                                                                                           |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | Classification based on data available for ingredients. Causes mild skin irritation.                                      |
| Serious eye damage/eye irritation | No information available.                                                                                                 |
| Respiratory or skin sensitization | No information available.                                                                                                 |
| Germ cell mutagenicity            | No information available.                                                                                                 |
| Carcinogenicity                   | The supplier declares that it can be shown that the substance(s) contain less than 3% DMSO extract as measured by IP 346. |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

- Legend**  
ACGIH (American Conference of Governmental Industrial Hygienists)  
A2 - Suspected Human Carcinogen  
IARC (International Agency for Research on Cancer)  
Group 1 - Carcinogenic to Humans  
NTP (National Toxicology Program)  
Known - Known Carcinogen  
Occupational Safety and Health Administration of the US Department of Labor  
X - Present

|                          |                                                                           |
|--------------------------|---------------------------------------------------------------------------|
| Reproductive toxicity    | No information available.                                                 |
| STOT - single exposure   | No information available.                                                 |
| STOT - repeated exposure | No information available.                                                 |
| Aspiration hazard        | Due to the viscosity, this product does not present an aspiration hazard. |

12. Ecological information

|                               |                           |
|-------------------------------|---------------------------|
| Ecotoxicity                   | No information available. |
| Persistence and degradability | No information available. |
| Bioaccumulation               | No information available. |
| Other adverse effects         | No information available. |

13. Disposal considerations

Disposal 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.                                                                                  |
| California waste information        | This product contains one or more substances that are listed with the State of California as                    |



a hazardous waste.

14. Transport information

|      |               |
|------|---------------|
| DOT  | Not regulated |
| TDG  | Not regulated |
| IATA | Not regulated |
| IMDG | 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

Contact supplier for inventory compliance status

US 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.

| Chemical name                                              | SARA 313 - Threshold Values % |
|------------------------------------------------------------|-------------------------------|
| Zinc bis(O,O-diisooctyl) bis(dithiophosphate) - 28629-66-5 | 1.0                           |

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated 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.

US State Regulations

California Proposition 65



This product contains the following Proposition 65 chemicals:

| Chemical name           | California Proposition 65                        |
|-------------------------|--------------------------------------------------|
| Ethylbenzene - 100-41-4 | Carcinogen                                       |
| Benzene - 71-43-2       | Carcinogen<br>Developmental<br>Male Reproductive |
| Naphthalene - 91-20-3   | Carcinogen                                       |

U.S. State Right-to-Know Regulations

| Chemical name                                                   | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------------------------------------------|------------|---------------|--------------|
| Base oil<br>64742-53-6                                          | -          | X             | -            |
| Zinc bis(O,O-diisooctyl)<br>bis(dithiophosphate)<br>28629-66-5  | X          | -             | X            |
| Ethylbenzene<br>100-41-4                                        | X          | X             | X            |
| Phenol,<br>2,6-bis(1,1-dimethylethyl)-4-met<br>hyl-<br>128-37-0 | X          | X             | X            |
| Xylene<br>1330-20-7                                             | X          | X             | X            |
| Naphthalene<br>91-20-3                                          | X          | X             | X            |
| Benzene<br>71-43-2                                              | X          | X             | X            |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 1 | <b>Flammability</b> 1 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 0 | <b>Flammability</b> 1 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |

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

**Legend**  
SVHC: Substances of Very High Concern for Authorization:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
STOT: Specific Target Organ Toxicity  
ATE: Acute Toxicity Estimate  
LC50: 50% Lethal Concentration  
LD50: 50% Lethal Dose

|                                                                |                             |      |                                  |
|----------------------------------------------------------------|-----------------------------|------|----------------------------------|
| <b>Legend</b> Section 8: Exposure controls/personal protection |                             |      |                                  |
| TWA                                                            | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling                                                        | Maximum limit value         | Sk*  | Skin designation                 |
| +                                                              | Sensitizers                 |      |                                  |

**Key literature references and sources for data used to compile the SDS**  
U.S. Environmental Protection Agency ChemView Database





European Food Safety Authority (EFSA)  
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)  
U.S. 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  
World Health Organization

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**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

