



SAFETY DATA SHEET AMSOIL Synthetic V-Twin Primary Fluid

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200 and WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR).

| 1. Identification | | | |
|---|---|--|--|
| Product identifier | | | |
| Product name | AMSOIL Synthetic V-Twin Primary Fluid | | |
| Product number | MVP | | |
| Recommended use of the chemical and restrictions on use | | | |
| Application | Lubricating oil. | | |
| Uses advised against | Avoid the formation of mists. | | |
| Details of the supplier of the safety data sheet | | | |
| Supplier | AMSOIL INC. Bordner, Ladner, Gervais Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4 T: +1 416-367-6547 | | |
| Manufacturer | AMSOIL INC. One AMSOIL Center, Superior, WI 54880, USA. T: +1 715-392-7101 | | |
| Emergency telephone numbe | <u></u> | | |
| 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 of the substance | e or mixture | | |
| OSHA/WHMIS Regulatory Status | This Product is not Hazardous under the OSHA Hazard Communication Standard and according to the hazard criteria of the Hazardous Product Regulations. | | |
| Physical hazards | Not Classified | | |
| Health hazards | Not Classified | | |
| Environmental hazards | Not Classified | | |
| Label elements | | | |
| Hazard statements | NC Not Classified | | |
| Other hazards | | | |
| This product does not contain any substances classified as PBT or vPvB. | | | |
| | | | |

3. Composition/information on ingredients

Mixtures



| Benzenamine, N-phenyl-, reaction products with 2,4,4-1 - <2.5% | | |
|--|---|--|
| CAS number: 68411-46-1 | | |
| Classification Aquatic Chronic 3 - H412 | | |
| Phosphorodithioic acid, O,O | -di-C1-14-alkyl esters, zinc salts 1 - <2.5% | |
| CAS number: 68649-42-3 | | |
| Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411 | | |
| The full text for all hazard sta | tements is displayed in Section 16. | |
| 4. First-aid measures | | |
| Description of first aid measu | res | |
| General information | Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. | |
| Inhalation | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. | |
| Ingestion | Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. | |
| Skin Contact | Remove affected person from source of contamination. Rinse immediately with plenty of water. | |
| Eye contact | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. | |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. | |
| Most important symptoms and | d effects, both acute and delayed | |
| General information | See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. | |
| Inhalation | Prolonged inhalation of high concentrations may damage respiratory system. | |
| Ingestion | Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation. | |
| Skin contact | Prolonged contact may cause dryness of the skin. | |
| Eye contact | May cause temporary eye irritation. | |
| Indication of immediate media | cal attention and special treatment needed | |
| Notes for the doctor | Treat symptomatically. | |
| Specific treatments | No special treatment required. | |



| 5. Fire-fighting measures | | |
|---|--|--|
| Extinguishing media | | |
| Suitable extinguishing media | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. | |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. | |
| Special hazards arising from the | ne substance or mixture | |
| Specific hazards | Containers can burst violently or explode when heated, due to excessive pressure build-up. Contains Hydrocarbons. The product is immiscible with water and will spread on the water surface. | |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. | |
| Advice for firefighters | | |
| Protective actions during firefighting | Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. | |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves, that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable. | |
| 6. Accidental release measure | S | |
| Personal precautions, protectiv | ve equipment and emergency procedures | |
| Personal precautions | No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Use protective equipment appropriate for surrounding materials. | |
| Environmental precautions | | |
| Environmental precautions | Avoid discharge to the aquatic environment. | |
| Methods and material for conta | ainment and cleaning up | |
| Methods for cleaning up | Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations. | |
| Reference to other sections | For personal protection, see Section 8. For waste disposal, see Section 13. | |
| 7. Handling and storage | | |
| Precautions for safe handling | | |



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| Usage precautions | Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid contact with used product. Do not reuse empty containers. | |
|---|---|--|
| Advice on general | Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash | |
| occupational hygiene | before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace. | |
| Conditions for safe storage, i | ncluding any incompatibilities | |
| Storage precautions | Store away from incompatible materials (see Section 10). Keep container tightly closed, in a cool, well ventilated place. Protect containers from damage. | |
| Storage class | Chemical storage. | |
| Specific end uses(s) | | |
| Specific end use(s) | The identified uses for this product are detailed in Section 1. | |
| 8. Exposure Controls/persona | al protection | |
| Control parameters | | |
| Occupational exposure limits | | |
| · | generate mists, the following exposure limits are recommended: | |
| Long-term exposure limit (8-hour TWA): 5 mg/m ³ | | |
| Short-term exposure limit (15-minute): 10 mg/m ³ | | |
| Ingredient comments | The product contains no other substances classified as hazardous to health by an OEL value in concentrations which should be taken into account. | |
| Exposure controls | | |
| Appropriate opgingering | Provide adaptive ventilation. Coad general ventilation should be adaptive to control worker | |

- Appropriate engineering
controlsProvide adequate ventilation. Good general ventilation should be adequate to control worker
exposure to airborne contaminants.
- Eye/face protectionEyewear complying with an approved standard should be worn if a risk assessment indicates
eye contact is possible. Personal protective equipment for eye and face protection should
comply with OSHA 1910.133 and/or the Canadian regulation on health and safety at work,
SOR/86-304, Part XII (12.6), and any relevant provincial regulation relating to health and
safety at work. The following protection should be worn: Chemical splash goggles.
- Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and/or the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.9), and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and bodyAppropriate footwear and additional protective clothing complying with an approved standardprotectionshould be worn if a risk assessment indicates skin contamination is possible.



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| Hygiene measures | Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. |
|---------------------------------|--|
| Respiratory protection | Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn. |
| Environmental exposure controls | Not regarded as dangerous for the environment. |

9. Physical and Chemical Properties

| Information on basic physical a | |
|--|---|
| Appearance | Liquid. |
| Color | Amber. |
| Odor | Mild hydrocarbon. |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point | Not available. |
| Initial boiling point and range | Not available. |
| Flash point | 238°C Cleveland open cup. [ASTM D 92] |
| Evaporation rate | Not available. |
| Upper/lower flammability or explosive limits | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | 0.8745 |
| Solubility(ies) | Not known. |
| Partition coefficient | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition Temperature | Not available. |
| Viscosity | 147.9 cSt @ 40°C 18.8 cSt @ 100°C [ASTM D 445] |
| Explosive properties | Not considered to be explosive. |
| Oxidizing properties | Does not meet the criteria for classification as oxidizing. |
| Fire point | 258°C Cleveland open cup. [ASTM D 92] |
| Pour point | -35°C [ASTM D 97] |
| 10. Stability and reactivity | |
| | |

Reactivity

See the other subsections of this section for further details.



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| Stability | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. |
|--|---|
| Possibility of hazardous reactions | No potentially hazardous reactions known. |
| Conditions to avoid | There are no known conditions that are likely to result in a hazardous situation. |
| Materials to avoid | No specific material or group of materials is likely to react with the product to produce a hazardous situation. |
| Hazardous decomposition products | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors. |
| 11. Toxicological information | |
| Information on toxicological eff | ects |
| Toxicological effects | Not regarded as a health hazard under current legislation. |
| Acute toxicity - oral Notes (oral LD ₅₀) | Based on available data the classification criteria are not met. |
| Acute toxicity - dermal Notes (dermal LD ₅₀) | Based on available data the classification criteria are not met. |
| Acute toxicity - inhalation Notes (inhalation LC50) | Based on available data the classification criteria are not met. |
| Skin corrosion/irritation Animal data | Based on available data the classification criteria are not met. |
| Serious eye damage/irritation Serious eye damage/irritation | Based on available data the classification criteria are not met. |
| Respiratory sensitization Respiratory sensitization | Based on available data the classification criteria are not met. |
| Skin sensitization Skin sensitization | Based on available data the classification criteria are not met. |
| Germ cell mutagenicity Genotoxicity - in vitro | Based on available data the classification criteria are not met. |
| Carcinogenicity Carcinogenicity | Based on available data the classification criteria are not met. |
| IARC carcinogenicity | None of the ingredients are listed or exempt. |
| Reproductive toxicity | Deced en sveilskla dete the slassification eriteria ere net met |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
| Reproductive toxicity - development | Based on available data the classification criteria are not met. |
| Specific target organ toxicity - | single exposure |
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. |

Specific target organ toxicity - repeated exposure

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| STOT - repeated exposure | Not classified as a specific target organ toxicant after repeated exposure. | | |
|--|---|--|--|
| Aspiration hazard Aspiration hazard | Based on available data the classification criteria are not met. | | |
| General information | No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. | | |
| Inhalation | Prolonged inhalation of high concentrations may damage respiratory system. | | |
| Ingestion | Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation. | | |
| Skin Contact | Prolonged contact may cause dryness of the skin. | | |
| Eye contact | May cause temporary eye irritation. | | |
| Route of exposure | Ingestion Inhalation Skin and/or eye contact | | |
| Target Organs | No specific target organs known. | | |
| Medical considerations | Skin disorders and allergies. | | |

Toxicological information on ingredients.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

| Acute toxicity - oral | |
|--|--|
| Notes (oral LD₅₀) | LD₅₀ >5000 mg/kg, Oral, Rat |
| Acute toxicity - dermal | |
| Notes (dermal LD ₅₀) | LD₅₀ >2000 mg/kg, Dermal, Rat |
| Skin corrosion/irritation | |
| Animal data | Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Edema score: Very slight oedema - barely perceptible (1). |
| Skin sensitization | |
| Skin sensitization | Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing. |
| Germ cell mutagenicity | |
| Genotoxicity - in vitro | Gene mutation: Negative. |
| Genotoxicity - in vivo | Chromosome aberration: Negative. |
| Reproductive toxicity | |
| Reproductive toxicity - fertility | Screening - NOEL >225 mg/kg/day, Oral, Rat P |
| Reproductive toxicity - development | Developmental toxicity: - NOAEL: 225 mg/kg/day, Oral, Rat |
| 12. Ecological Information | |

| Ecotoxicity | Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. | |
|--|---|--|
| Toxicity | Based on available data the classification criteria are not met. | |
| Ecological information on ingredients. | | |



Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

| Acute aquatic to | xicity | |
|-------------------------------------|------------------------------|--|
| Acute toxicity - fi | sh | LC₅₀, 96 hours: >100 mg/l, Brachydanio rerio (Zebra Fish) |
| Acute toxicity - a invertebrates | quatic | EC₅₀, 48 hours: 51 mg/l, Daphnia magna |
| Acute toxicity - a plants | quatic | EC₅₀, 72 hours: >100 mg/l, Desmodesmus subspicatus |
| Persistence and degradability | | |
| Persistence and degradability | The deg | gradability of the product is not known. |
| Ecological information on ingr | edients. | |
| | Benze | enamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene |
| Persistence and degradability | | No biodegradation observed under test conditions. |
| Phototransforma | ation | Water - DT₅₀ : 0.6 hours |
| Bioaccumulative potential | | |
| Bio-Accumulative Potential | No data | a available on bioaccumulation. |
| Partition coefficient | Not ava | ilable. |
| Ecological information on ingr | edients. | |
| | Benzo | enamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene |
| Bio-Accumulativ | e Potentia | BCF: 1730, Cyprinus carpio (Common carp) The product is not bioaccumulating. |
| Partition coefficie | ent | log Pow: >6 |
| Mobility in soil | | |
| Mobility | No data | a available. |
| Ecological information on ingr | edients. | |
| | Benzo | enamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene |
| Mobility | | The product is partly soluble in water and may spread in the aquatic environment. |
| Other adverse effects | | |
| Other adverse effects | None k | nown. |
| 13. Disposal considerations | | |
| Waste treatment methods | | |
| General information | product way. Di comply | neration of waste should be minimized or avoided wherever possible. Reuse or recycle is wherever possible. This material and its container must be disposed of in a safe sposal of this product, process solutions, residues and by-products should at all times with the requirements of environmental protection and waste disposal legislation and al authority requirements. |



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Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

14. Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT, TDG).

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance No.

Special precautions for user

Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

Regulatory ReferencesOSHA Hazard Communication Standard 29 CFR §1910.1200 Hazardous Products Regulation
(SOR/2015-17) Transportation of Dangerous Goods Regulations -SOR/2015-100.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

The following ingredients are listed or exempt:



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Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 1.0 %

CAA Accidental Release Prevention None of the ingredients are listed or exempt.

FDA - Essential Chemical

None of the ingredients are listed or exempt.

FDA - Precursor Chemical None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I) None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II) None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

The following ingredients are listed or exempt: Distillates (petroleum), solvent-dewaxed light paraffinic <3% DMSO Distillates (petroleum), hydrotreated light paraffinic <3% DMSO

Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

Minnesota "Right To Know" List None of the ingredients are listed or exempt.

New Jersey "Right To Know" List None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List None of the ingredients are listed or exempt.

Inventories

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA All the ingredients are listed or exempt.



US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

| 16. Other information | |
|---|---|
| Abbreviations and acronyms used in the safety data sheet | C.A.S. = Chemical Abstracts Service; E.C. No = European Commission number; GHS = Globally Harmonised System; OSHA = Occupational Safety and Health Administration; WHMIS = Workplace Hazardous Materials Information System; DOT = Department of Transport; TDG = Transport of Dangerous Goods Regulations; IMDG = International Maritime Dangerous Goods; IATA = International Air Transport Association; SARA = Superfund Amendments and Reauthorization Act; CERCLA = Comprehensive Environmental; EPCRA = Emergency Planning and Community Right-to-Know Act; TSCA = Toxic Substances Control Act; LD/LC/EC = Lethal Dose,Lethal Concentration/Effect Concentration for 50% of population; NOEC = No Overall Effect Concentration; NOEL = No Overall Effect Level; REACH = Registration, Evaluation, Authorisation & Restriction of Chemicals; STOT-RE = Single Target Organ Toxicity - Repeat Exposure; STOT-SE= Specific Target Organ Toxicity - Single Exposure; PBT = Persistent, Bioaccumulative, Toxic; vPvB = Very Persistent, Very Bioaccumulative. |
| Key literature references and sources for data | Source: European Chemicals Agency, http://echa.europa.eu/ |
| Training advice | Read and follow manufacturer's recommendations. Only trained personnel should use this material. |
| Revision date | 9/18/2017 |
| Revision | 0 |
| SDS No. | 6173 |
| Hazard statements in full | H315 Causes skin irritation. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.