

SAFETY DATA SHEET

Synthetic Multi-Viscosity Hydraulic Oil ISO-68

| Section 1. Identification Version | | : 05/15/2016 : 4 |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| GHS product identifier | : Synthetic Multi-Viscosity Hydraulic Oil ISO-68 | |
| Code Product type | : HVJ : Liquid. | |
| Identified uses | : Hydraulic fluid. Not to be misted. | |
| Manufacturer | : AMSOIL INC. One AMSOIL Center Superior, WI 54880 Tel: +1 715-392-7101 | |
| Initial Supplier (Canada) | : AMSOIL INC. Bordner, Ladner, Gervais Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4 Tel: +1 416-367-6547 | |
| Emergency telephone number (with hours of operation) | : CHEMTREC: Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect call (24/7) | |

Section 2. Hazards identification

| OSHA/HCS status | : This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). | |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--|
| Classification of the | : Not classified. | |
| substance or mixture | | |
| 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 | : Not applicable. | |
| Disposal | : Not applicable. | |
| Hazards not otherwise classified (HNOC) | | |
| Physical hazards not otherwise classified (PHNOC) | : None known. | |

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Health hazards not
otherwise classified
(HHNOC)
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: None known.

Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
|-------------------|------------------|
| Other means of | : Not available. |
| identification | |

| CAS number/other ide | ntifiers | | |
|---------------------------------------|-------------------|------------------|---------------|
| CAS number | : Not applicable. | | |
| Product code | : HVJ | | |
| Ingredient name | | % | CAS number |
| Base Oils* 2,6-di-tert-Butylphenol | | ≥1 - ≤3 <0.25 | - 128-39-2 |

*Base Oil(s): 64742-55-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

| Description of necessary first aid measures | | |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. | |
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. | |
| Skin contact | : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. | |
| Ingestion | : Wash out mouth with water. Get medical attention if symptoms occur. | |
| Most important symptoms/effects, acute and delayed | | |
| Potential acute healt | <u>h effects</u> | |
| Eye contact | : No known significant effects or critical hazards. | |
| Inhalation | : No known significant effects or critical hazards. | |
| Skin contact | : No known significant effects or critical hazards. | |
| Ingestion | : No known significant effects or critical hazards. | |
| Over-exposure signs/symptoms | | |
| Eye contact | : No known significant effects or critical hazards. | |
| Inhalation | : No known significant effects or critical hazards. | |
| Skin contact | : No known significant effects or critical hazards. | |

| Ingestion | : No known significant effects or critical hazards. | | | |
|--------------------------------------------------------------------------------------|-----------------------------------------------------|--|--|--|
| Indication of immediate medical attention and special treatment needed, if necessary | | | | |
| Notes to physician | : Treat symptomatically. | | | |
| Specific treatments | : No specific treatment. | | | |
| Protection of first-aiders | : No special protection is required. | | | |
| | | | | |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable extinguishing media | : None known. |
| Specific hazards arising from the chemical | : No specific fire or explosion hazard. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| Special protective actions for fire-fighters | : No special protection is required. |
| 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 | : 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

HVJ

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 via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

| Precautions for safe handling | 1 | |
|--------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective measures | 1 | Put on appropriate personal protective equipment (see Section 8). Avoid contact with used product. Do not reuse container. |
| Advice on general occupational hygiene | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage, including any incompatibilities | : | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Under conditions which may generate mists, the following exposure limits are recommended: ACGIH TLV TWA: 5 mg/m³; STEL: 10 mg/m³.

United States

None known.

| Canada | |
|---------------|--|
| | |

Occupational exposure limits

None.

| Appropriate engineering controls | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. |
| | |

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

| Eye/face protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin protection | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be 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. |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Not required under normal conditions of use. |

Section 9. Physical and chemical properties

| <u>Appearance</u> | | |
|----------------------------------------------|---|---------------------------------------------------------------------------------------|
| Physical state | 1 | Liquid. |
| Color | 1 | Straw. |
| Odor | 1 | Mild hydrocarbon. |
| Odor threshold | 1 | Not available. |
| рН | 1 | Not available. |
| Melting point | 1 | -41°C (-41.8°F) |
| Boiling point | 1 | Not available. |
| Flash point | 1 | Open cup: 252°C (485.6°F) [Cleveland.] |
| Evaporation rate | 1 | Not available. |
| Flammability (solid, gas) | 1 | Not available. |
| Lower and upper explosive (flammable) limits | 1 | Not available. |
| Vapor pressure | 1 | Not available. |
| Vapor density | : | Not available. |
| Relative density | 1 | 0.8597 |
| Solubility | 1 | Not available. |
| Partition coefficient: n- octanol/water | 1 | Not available. |
| Auto-ignition temperature | 1 | Not available. |
| Decomposition temperature | 1 | Not available. |
| Viscosity | : | Kinematic: 0.112 cm²/s (11.2 cSt) (100°C) Kinematic: 0.685 cm²/s (68.5 cSt) (40°C) |
| Volatility | 1 | Not available. |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--------------------------------------------------------------------------------------------------------|
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : No specific data. |
| Incompatible materials | : Reactive or incompatible with the following materials: oxidizing materials. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|--------------------------|---------|-------------------------|----------|
| 2,6-di-tert-Butylphenol | LD50 Dermal LD50 Oral | | >10 g/kg >5000 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|----------|-------------|
| 2,6-di-tert-Butylphenol | Skin - Moderate irritant | Rat | - | 0.5 mL | - |

Sensitization

There is no data available.

Carcinogenicity

Classification

| Product/ingredient name | OSHA | IARC | NTP | ACGIH | EPA | NIOSH |
|--------------------------------------------|------|------|-----|-------|-----|-------|
| Distillates, hydrotreated light paraffinic | - | - | - | A4 | - | - |

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

| Information on the likely | : | Dermal contact. Eye contact. Inhalation. Ingestion. |
|--------------------------------|----|------------------------------------------------------------|
| routes of exposure | | |
| Potential acute health effects | | |
| Eye contact | 4 | No known significant effects or critical hazards. |
| Inhalation | 1 | No known significant effects or critical hazards. |
| Skin contact | : | No known significant effects or critical hazards. |
| Ingestion | 1 | No known significant effects or critical hazards. |
| | | |
| Symptoms related to the phy | si | cal, chemical and toxicological characteristics |
| Eye contact | 1 | No known significant effects or critical hazards. |
| Inhalation | 1 | No known significant effects or critical hazards. |
| Skin contact | : | No known significant effects or critical hazards. |
| Ingestion | 1 | No known significant effects or critical hazards. |
| | | |
| Delayed and immediate effec | ts | and also chronic effects from short and long term exposure |
| Short term exposure | | |
| Potential immediate | | No known significant effects or critical hazards |

| Potential immediate effects | : No known significant effects or critical hazards. |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potential delayed effects | : No known significant effects or critical hazards. |
| Long term exposure | |
| Potential immediate effects | : No known significant effects or critical hazards. |
| Potential delayed effects | : No known significant effects or critical hazards. |
| Detended all shows to be alther off | 1- |
| Potential chronic health eff | <u>ects</u> |
| General | ects : No known significant effects or critical hazards. |
| | |
| General | : No known significant effects or critical hazards. |
| General Carcinogenicity | No known significant effects or critical hazards.No known significant effects or critical hazards. |
| General Carcinogenicity Mutagenicity | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|------------------------------|-----------|
| Inhalation (dusts and mists) | 62.5 mg/L |

HVJ

Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| 2,6-di-tert-Butylphenol | 4.5 | - | high |

Mobility in soil

| Soil/water partition coefficient (Koc) | : There is no data available. |
|-------------------------------------------|-------------------------------|
| | |

Other adverse effects : No known significant effects or critical hazards.

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 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 | TDG | IMDG | ΙΑΤΑ |
|-------------------------------|----------------|----------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - | - |
| Transport hazard class(es) | - | - | - | - |
| | 1 | | | |

| Packing group | - | - | - | - |
|--------------------------|-----|-----|-----|-----|
| Environmental hazards | No. | No. | No. | No. |
| Additional information | - | - | - | - |

AERG : Not applicable

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

| U.S. Federal regulations | United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Zinc Alkyldithiophosphate; Naphthalene; Arsenic; Benzene; Ethylbenzene Clean Water Act (CWA) 311: Naphthalene; Benzene; Ethylbenzene |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) | : Listed |
| Clean Air Act Section 602 Class I Substances | : Not listed |
| Clean Air Act Section 602 Class II Substances | : Not listed |
| DEA List I Chemicals (Precursor Chemicals) | : Not listed |
| DEA List II Chemicals (Essential Chemicals) | : Not listed |
| SARA 302/304 | |
| Composition/information | on ingredients |
| No products were found. | |
| SARA 304 RQ | : Not applicable. |
| <u>SARA 311/312</u> | |
| Classification | : Not applicable. |
| Composition/information | on ingredients |

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|--------------------------------------------------------------------|---|----------------|----------------------------------|------------|------------------------------------------|------------------------------------------|
| Distillates, hydrotreated light paraffinic 2,6-di-tert-Butylphenol | - | No. No. | No. No. | No. No. | Yes. Yes. | No. No. |

SARA 313

No products were found.

| State regulations | |
|-------------------|-----------------------------------------------------------------------------------|
| Massachusetts | : None of the components are listed. |
| New York | : None of the components are listed. |
| New Jersey | : None of the components are listed. |
| Pennsylvania | : The following components are listed: Distillates, hydrotreated heavy paraffinic |

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|--------------------------------------------------|-------------------------------------------------|
| Naphthalene | Yes. | No. | Yes. | No. |
| Ethylbenzene | Yes. | | 41 μg/day (ingestion) 54 μg/day (inhalation) | No. |
| Benzene | Yes. | Yes. | 6.4 μg/day (ingestion) 13 μg/day (inhalation) | 24 μg/day (ingestion) 49 μg/day (inhalation) |
| Ethyl acrylate | Yes. | No. | No. | No. |
| Arsenic | Yes. | No. | 0.06 µg/day (inhalation) | No. |

Canada

| <u>Canadian lists</u> | | |
|------------------------------|---|---|
| Canadian NPRI | : | Ν |
| CEPA Toxic substances | : | Ν |
| Canada inventory | 1 | A |

- None of the components are listed.
- : None of the components are listed.
- : All components are listed or exempted.

Section 16. Other information

History

| Date of issue mm/dd/yyyy | : 05/15/2016 |
|--------------------------|---------------|
| Date of previous issue | : 03/15/2014 |
| Version | : 4 |
| Prepared by | : AMSOIL INC. |

Notice to reader

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