



# 2040, 2041, 2069, 2099 Synthoil Premium 5W-40

## Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard and the Hazardous Products Regulation (WHMIS 2015)

Issue date: 7/16/2023 Revision date: 7/16/2023 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : 2040, 2041, 2069, 2099 Synthoil Premium 5W-40  
Product code :

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Engine oil  
Restrictions on use : None known

#### 1.3. Supplier

Liqui Moly GmbH  
Jerg-Wieland-Strasse 4 Ulm D-89081 Germany  
T +49 731 1420 0  
[info@liqui-moly.de](mailto:info@liqui-moly.de) - [www.liqui-moly.us](http://www.liqui-moly.us)

#### 1.4. Emergency telephone number

Emergency number : INFOTRAC  
+1800 535 5053 (USA, Canada); +1352 323 3500 (International)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

No labelling applicable

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None known.

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name   | Product identifier  | %      |
|--|---------------------|--------|
| Distillates (petroleum), hydrotreated heavy paraffinic | CAS-No.: 64742-54-7 | 80-100 |

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| Name   | Product identifier  | %     |
|--|---------------------|-------|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | CAS-No.: 72623-86-0 | 1 – 5 |
| Lubricating Oils (petroleum), C20-50, hydrotreated neutral oil-based | CAS-No.: 72623-87-1 | 1 – 5 |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                    |
| First-aid measures after skin contact | : Wash skin with mild soap and water.   |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.  |

#### 4.2. Most important symptoms and effects (acute and delayed)

|                  |   |
|------------------|---|
| Symptoms/effects | : No adverse effects expected.  |
| Inhalation       | : Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation. |
| Skin             | : Repeated or prolonged skin contact may cause dermatitis and defatting.                    |
| Eyes             | : May cause minor eye irritation.   |
| Ingestion        | : Abdominal pain. Diarrhoea.  |
| Chronic symptoms | : None known.   |

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Use of heavy stream of water may spread fire.  |

#### 5.2. Specific hazards arising from the chemical

|  |   |
|--|---|
| Fire hazard                                      | : This product is not classified as flammable or combustible.   |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon oxides (CO, CO <sub>2</sub> ). Fire will produce dense black smoke. |

#### 5.3. Special protective equipment and precautions for fire-fighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Cool down the containers exposed to heat with a water spray.   |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

|                      |                            |
|----------------------|----------------------------|
| Emergency procedures | : Ventilate spillage area. |
|----------------------|----------------------------|

##### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

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### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |  |
|-------------------------|--|
| For containment         | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| Methods for cleaning up | : Absorb and/or contain spill with inert material, then place in suitable container.                 |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                      |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with eyes. Avoid repeated or prolonged skin contact. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.   |

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |  |
|------------------------|--|
| Storage conditions     | : Store in a well-ventilated place. Keep cool. |
| Incompatible materials | : Strong oxidizers.                            |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 2040, 2041, 2069, 2099 Synthoil Premium 5W-40

No additional information available

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

##### USA - ACGIH - Occupational Exposure Limits

|                      |   |
|----------------------|---|
| Local name           | Mineral oil, excluding metal working fluids Pure, highly and severely refined |
| ACGIH OEL TWA        | 5 mg/m <sup>3</sup> (I - Inhalable particulate matter)                        |
| Remark (ACGIH)       | TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)   |
| Regulatory reference | ACGIH 2021  |

##### USA - OSHA - Occupational Exposure Limits

|                                |                          |
|--------------------------------|--------------------------|
| Local name                     | Oil mist, mineral        |
| OSHA PEL (TWA)                 | 5 mg/m <sup>3</sup>      |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

##### USA - ACGIH - Occupational Exposure Limits

|               |                               |
|---------------|-------------------------------|
| ACGIH OEL TWA | 5 mg/m <sup>3</sup> inhalable |
|---------------|-------------------------------|

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| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) |                               |
|---|-------------------------------|
| USA - OSHA - Occupational Exposure Limits   |                               |
| OSHA PEL (TWA)  | 5 mg/m <sup>3</sup>           |
| Lubricating Oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) |                               |
| USA - ACGIH - Occupational Exposure Limits  |                               |
| ACGIH OEL TWA   | 5 mg/m <sup>3</sup> inhalable |
| USA - OSHA - Occupational Exposure Limits   |                               |
| OSHA PEL (TWA)  | 5 mg/m <sup>3</sup>           |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

|   |
|---|
| <b>Hand protection:</b>   |
| In case of repeated or prolonged contact wear gloves. Consult supplier for specific recommendations.  |
| <b>Eye protection:</b>  |
| Not required for normal conditions of use   |
| <b>Skin and body protection:</b>  |
| Wear suitable protective clothing   |
| <b>Respiratory protection:</b>  |
| In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                       |
|---|-----------------------|
| Physical state                                  | : Liquid              |
| Appearance                                      | : Liquid.             |
| Colour  | : Brown               |
| Odour   | : Characteristic      |
| Odour threshold                                 | : No data available   |
| pH  | : No data available   |
| Melting point                                   | : -45 °C              |
| Freezing point                                  | : No data available   |
| Boiling point                                   | : No data available   |
| Flash point                                     | : 230 °C (446F)       |
| Relative evaporation rate (butylacetate=1)      | : No data available   |
| Flammability (solid, gas)                       | : Not applicable.     |
| Vapour pressure                                 | : No data available   |
| Relative vapour density at 20°C                 | : No data available   |
| Relative density                                | : 0.855               |
| Solubility                                      | : Insoluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available   |
| Auto-ignition temperature                       | : No data available   |
| Decomposition temperature                       | : No data available   |

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|                      |                              |
|----------------------|------------------------------|
| Viscosity, kinematic | : 82 mm <sup>2</sup> /s @40C |
| Viscosity, dynamic   | : No data available          |
| Explosive limits     | : No data available          |
| Explosive properties | : None.                      |
| Oxidising properties | : None.                      |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>               |   |
|--|---|
| LD50 oral rat  | > 5000 mg/kg  |
| LD50 dermal rat  | > 2000 mg/kg bodyweight   |
| LD50 dermal rabbit   | > 5000 mg/kg Source: IUCLID   |
| LC50 Inhalation - Rat  | > 5000 mg/m <sup>3</sup>  |
| <b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b> |   |
| LD50 oral rat  | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method) |
| <b>Lubricating Oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)</b> |   |
| LD50 oral rat  | 5000 mg/kg bodyweight   |
| LD50 dermal rat  | > 2000 mg/kg bodyweight   |

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| <b>Lubricating Oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)</b> |   |
|--|---|
| LC50 Inhalation - Rat  | > 5 mg/l/4h   |
| Skin corrosion/irritation  | : Not classified  |
| Serious eye damage/irritation  | : Not classified  |
| Respiratory or skin sensitisation  | : Not classified  |
| Germ cell mutagenicity   | : Not classified  |
| Carcinogenicity  | : Not classified  |
| Reproductive toxicity  | : Not classified  |
| STOT-single exposure   | : Not classified  |
| STOT-repeated exposure   | : Not classified  |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>               |   |
| LOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| <b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b> |   |
| LOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| <b>Lubricating Oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)</b> |   |
| LOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Aspiration hazard  | : Not classified  |
| Viscosity, kinematic   | : 82 mm <sup>2</sup> /s @40C  |
| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>               |   |
| Viscosity, kinematic   | 73.9 mm <sup>2</sup> /s   |
| <b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b> |   |
| Viscosity, kinematic   | 1.99 – 847 mm <sup>2</sup> /s Temp.: '40°C' Parameter: 'mm <sup>2</sup> /s' 'mm <sup>2</sup> /s'                                  |
| <b>Lubricating Oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)</b> |   |
| Viscosity, kinematic   | 1.99 – 847 mm <sup>2</sup> /s Temp.: '40°C' Parameter: 'mm <sup>2</sup> /s' 'mm <sup>2</sup> /s'                                  |
| Symptoms/effects   | : No adverse effects expected.  |
| Inhalation   | : Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation.                                       |
| Skin   | : Repeated or prolonged skin contact may cause dermatitis and defatting.  |
| Eyes   | : May cause minor eye irritation.   |
| Ingestion  | : Abdominal pain. Diarrhoea.  |
| Chronic symptoms   | : None known.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

| <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b> |                            |
|--|----------------------------|
| LC50 - Fish [1]  | ≥ 100 mg/l                 |
| EC50 - Crustacea [1]   | > 10000 ml/l               |
| EC50 96h - Algae [1]   | > 1000 mg/l Source: IUCLID |

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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

|   |                        |
|---|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.9 – 6 Source: IUCLID |
|---|------------------------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT                                     | TDG           | IMDG          | IATA          |
|---|---------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |               |
| Not regulated for transport             |               |               |               |
| <b>14.2. Proper Shipping Name</b>       |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |

### 14.6. Special precautions for user

#### DOT

Not regulated

#### TDG

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard and the Hazardous Products Regulation (WHMIS 2015)

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### 2040, 2041, 2069, 2099 Synthoil Premium 5W-40

|                                     |  |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Refer to Section 2 for OSHA Hazard Classification. |
|-------------------------------------|--|

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|                |         |        |
|----------------|---------|--------|
| Zinc Compounds | CAS-No. | ≤ 1.5% |
|----------------|---------|--------|

### 15.2. International regulations

#### CANADA

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Lubricating Oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

#### 2040, 2041, 2069, 2099 Synthoil Premium 5W-40

Listed on the Canadian DSL (Domestic Substances List)  
Listed on the United States TSCA (Toxic Substances Control Act) 12B inventory

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard and the Hazardous Products Regulation (WHMIS 2015)

Revision date

: 7/16/2023

Data sources

: This safety data sheet was compiled with data and information from the following sources :  
RTECS, ECOSAR, HSDB, SIDS SIAP, CESAR, Chemical DB.



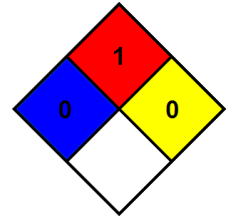
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|                    |  |
|--------------------|--|
| NFPA health hazard | : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials. |
| NFPA fire hazard   | : 1 - Materials that must be preheated before ignition can occur.  |
| NFPA reactivity    | : 0 - Material that in themselves are normally stable, even under fire conditions.                                     |



Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.