

**DYNAMAX HYPOL 80W/90 GL-4****Safety data sheet**

(Regulation 1907/2006/EC, amended by 2015/830/EU)

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING****1.1. Product identifier**

|                       |                                  |                |  |
|-----------------------|----------------------------------|----------------|--|
| <b>Material Name:</b> | <b>DYNAMAX HYPOL 80W/90 GL-4</b> |                |  |
| <b>CAS:</b>           |                                  | <b>EINECS:</b> |  |
|                       |                                  | <b>ELINCS:</b> |  |

**1.2. Identified uses**

|              |          |
|--------------|----------|
| <b>Uses:</b> | Gear oil |
|--------------|----------|

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

|                                |   |  |  |
|--------------------------------|---|--|--|
| <b>Manufacturer/Supplier:</b>  | EURO-VAT spol. s r.o.   |  |  |
| <b>IČO:</b>                    | 18049397  |  |  |
| <b>Address:</b>                | Alešince 231  |  |  |
|                                | 951 22  |  |  |
|                                | Alešince (Slovakia)   |  |  |
| <b>Phone/fax number:</b>       | +421 37 7822 326-7  |  |  |
| <b>E-mail:</b>                 | <a href="mailto:eurovat@eurovat.sk">eurovat@eurovat.sk</a>  | <a href="http://www.eurovat.sk">www.eurovat.sk</a> |  |
| <b>Emergency phone number:</b> | Národné toxikologické informačné centrum (NTIC)<br>Klinika pracovného lekárstva a toxikológie, FNsP akad. L.Dérera<br>Limbova 5<br>833 05 Bratislava<br>Tel. +421 2 5477 4166 <a href="mailto:ntic@ntic.sk">ntic@ntic.sk</a> <a href="http://www.ntic.sk">www.ntic.sk</a> |  |  |

**SECTION 2: HAZARDS IDENTIFICATION**

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| <b>2.1. Classification of the substance or mixture</b> | <b>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</b><br>-  |
| <b>2.2 Label elements</b>                              | <b>Hazard pictograms (CLP/GHS) :</b><br>No Hazard Symbol required<br><br><b>Signal word:</b> -<br><br><b>H-phrases:</b><br>-<br>EUH208 Contains polysulfides, di-tert-Bu, reaction products of bis (2-methylpentane-2-yl) dithiophosphoric acid with phosphorus pentoxide, ethylene oxide and branched alkylamines (C12-C14). May produce an allergic reaction.<br><br><b>P-phrases:</b><br>P273 Avoid release to the environment<br>P501 Dispose of contents/container to a hazardous waste in accordance with relevant legislation<br><br>Contains: -<br><br><b>Precautionary statements</b><br><b>Prevention :</b> Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. |

## DYNAMAX HYPOL 80W/90 GL-4

|                   |  |
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| 2.3 Other hazards | <p><b>Response :</b> Get medical attention if you feel unwell. <b>IF SWALLOWED:</b> Call a <b>POISON CENTER</b> or physician if you feel unwell.</p> <p><b>Storage :</b> Store in well closed packing at temperatures of up to 40 °C in a dry room that can be ventilated. Protect against heat and direct sunlight. Do not store near food. Prevent its release to the environment.</p> <p><b>Disposal :</b> Not applicable.</p> <p><b>Supplemental label elements:</b> Not applicable.</p> <p><b>Special packaging requirements</b><br/><b>Containers to be fitted with child-resistant fastenings:</b> Not applicable.<br/><b>Tactile warning of danger:</b> Not applicable.</p> <p><b>Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII:</b><br/>Not available.</p> <p><b>Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:</b><br/>Not available.</p> <p><b>Other hazards which do not result in classification:</b> Not available.</p> |
|-------------------|--|

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Product /ingredient name  | CAS         | EC        | Symbols   | Conc.    | Registr. no REACH     | GHS classification   |                                      |
|---|-------------|-----------|---|----------|-----------------------|--|--------------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic  | 64742-54-7  | 265-157-1 | *   | min. 95  | 01-119484627-25-xxxx  | Asp.Tox.1  | H304                                 |
| Lubricating oils (petroleum), C>25, solvent-extd., deasphalted, dewaxed, hydrogenated   | 101316-69-2 | 309-874-0 | *   |          | 01-2119486948-13-xxxx | -  | -                                    |
| Polysulfides, di-tert-Bu  | 68937-96-2  | 273-103-3 |  | max. 1   | 01-2119540515-43-xxxx | Aquatic Chronic 4<br>Skin Sens.1   | H413<br>H317                         |
| product chem. reaction of bis (2 - methylpentane-2-yl) ditiophosphor. acid., phosphorus pentoxide, ethylene oxide and the branched-chain alkyl amines (C12-C14) | -           | 931-384-6 |  | max. 0,4 | 01-2119493620-38-xxxx | Acute Tox.4<br>Aquatic Chronic 2<br>Eye Irrit.1<br>Flam.Liq.3<br>Skin Sens.1 | H302<br>H411<br>H318<br>H226<br>H317 |

\* The base oils used in the mixtures containing less than 3% DMSO extract by IP 346. According to a note in the classified list of L products are not classified as hazardous substances.

### SECTION 4: FIRST AID MEASURES

|   |   |
|---|---|
| 4.1 Description of first aid measures                           | <p><b>Eye contact:</b> Rinse immediately with plenty of water. Seek medical attention if irritation develops.</p> <p><b>Inhalation:</b> Assure fresh air breathing. If you feel unwell, seek medical advice.</p> <p><b>Skin contact:</b> Wash the skin with water and soap and apply skin-protective cream.</p> <p><b>Ingestion:</b> Do not induce vomiting. If the injured is conscious give 2 glasses of water. Ensure medical assistance immediately</p> |
| 4.2 Most important symptoms and effects, both acute and delayed | <p><b>Potential acute health effects</b><br/><b>Eye contact:</b> No known significant effects or critical hazards.<br/><b>Inhalation :</b> No known significant effects or critical hazards.<br/><b>Skin contact :</b> No known significant effects or critical hazards.<br/><b>Ingestion :</b> No known significant effects or critical hazards.</p> <p><b>Over-exposure signs/symptoms</b><br/><b>Eye contact :</b> No specific data.</p>                 |

## DYNAMAX HYPOL 80W/90 GL-4

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|   | <p><b>Inhalation:</b> No specific data.<br/><b>Skin contact:</b> No specific data.<br/><b>Ingestion:</b> No specific data.</p> |
| <b>4.3 Indication of any immediate medical attention and special treatment needed</b> | <p><b>Notes to physician:</b> No specific notes.<br/><b>Specific treatments:</b> No specific treatment.</p>                    |

### SECTION 5: FIRE FIGHTING MEASURES

|   |  |
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| <b>5.1 Suitable extinguishing media</b>           | Water fog, carbon dioxide, foam, dry chemical product, sand  |
| <b>5.2. Unsuitable extinguishing media</b>        | Do not use a heavy water stream.   |
| <b>5.3. Specific hazards</b>                      | Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. |
| <b>5.4. Protective equipment for firefighters</b> | Proper protective equipment including breathing  |
| <b>Additional advice</b>                          | Flammable liquid IV. class!  |

### SECTION 6: ACCIDENTAL RELEASE MEASURES

|                                       |  |
|---------------------------------------|--|
| <b>6.1. Personal precautions</b>      | Ensure adequate ventilation. Avoid contact with skin and eyes. No smoking.   |
| <b>6.2. Environmental precautions</b> | Do not allow to surface and groundwater. With its breakthrough contact person.   |
| <b>6.3. Clean up methods</b>          | Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay sand or other suitable material and dispose of properly. Local authorities should be advised if significant spillages cannot be contained. |

### SECTION 7: HANDLING AND STORAGE

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|----------------------|---|
| <b>7.1. Handling</b> | Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.             |
| <b>7.2 . Storage</b> | Store in well closed packing at temperatures of up to 40 °C in a dry room that can be ventilated. Protect against heat and direct sunlight. Do not store near food. Prevent its release to the environment. |

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|   |   |
|---|---|
| <b>8.1. Control parameters</b>                | Ventilation respectively. exhausting work areas. The work may not be readily combustible substances and other dangerous source of fire.   |
| <b>8.2 Exposure controls</b>                  | Observe the usual precautions for health at work and in good ventilation. When using do not eat, drink or smoke.  |
| <b>8.2.1 Occupational exposure controls</b>   | <p>a) Respiratory protection: the use of Filter type A (EN 141) is recommended if exceeding the Occupational Exposure Limit.<br/>b) Eye protection: chemical goggles or safety glasses (EN 166)<br/>c) Protection of hands: Wear suitable gloves resistant to chemical penetration (EN 374)<br/>d) Skin protection: Wear suitable protective clothing (EN 465, EN 466 or EN 467)<br/>Other: Protective helmet. Do not wear leather soled shoes.</p> |
| <b>8.2.2. Environmental exposure controls</b> | To prevent leakage of concentrated mixture into surface water drains or soil. Mixture stored in tightly sealed and labeled containers.  |

**DYNAMAX HYPOL 80W/90 GL-4****8.3. TWA**Occupational Exposure Standard (OES) of  $5\text{mg}/\text{m}^3$ , 8-hour time-weighted average reference period for oil mist.**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

|   |                             |
|---|-----------------------------|
| <b>Physical state</b>   | Oily liquid                 |
| <b>Colour</b>   | yellow                      |
| <b>Odour</b>  | Light odour of petroleum    |
| <b>pH</b>   | not available               |
| <b>Flash point (ASTM-D92) [°C]</b>  | > 190                       |
| <b>Boiling point (ASTM D1120) [°C]</b>                                      | not available               |
| <b>Melting point [°C]</b>   | < -18                       |
| <b>Flammability</b>   | IV. class                   |
| <b>Temperature of spontaneous combustion [°C]</b>                           | not available               |
| <b>Lower limit of explosion</b>   | not available               |
| <b>Superior limit of explosion</b>  | not available               |
| <b>Oxidising properties</b>   | not available               |
| <b>Vapour pressure [hPa]</b>  | not available               |
| <b>Relative density [<math>\text{g}\cdot\text{cm}^{-3}</math>]</b>          | approx. 0,880               |
| <b>Water solubility [<math>\text{g}\cdot\text{l}^{-1}</math>]</b>           | material insoluble in water |
| <b>Solubility in solvents [<math>\text{g}\cdot\text{l}^{-1}</math>]</b>     | soluble in benzine, toluene |
| <b>9.2 Other information</b>  |                             |
| <b>Viscosity at 40°C [<math>\text{mm}^2\cdot\text{s}^{-1}</math>] typ.</b>  | -                           |
| <b>Viscosity at 100°C [<math>\text{mm}^2\cdot\text{s}^{-1}</math>] typ.</b> | 8,5 – 40,0                  |

**SECTION 10: STABILITY AND REACTIVITY**

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| <b>10.1 Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients. |
| <b>10.2 Chemical stability</b>                 | Stable under recommended conditions of use and storage.                                    |
| <b>10.3 Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.            |
| <b>10.4 Conditions to avoid</b>                | Extremes of temperature and direct sunlight  |
| <b>10.5 Incompatible materials</b>             | Strong oxidising agents  |
| <b>10.6 Hazardous decomposition products</b>   | Hazardous decomposition products are not expected to form during normal storage            |

**SECTION 11: TOXICOLOGICAL INFORMATION**

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|--|---|
| <b>11.1 Information on toxicological effects</b> | <p><b><u>Acute toxicity</u></b><br/>Acute oral toxicity - LD50 (rat) &gt; 5000 mg/kg<br/>Acute dermal toxicity - LD50 (rabbit) &gt; 5000 mg/kg<br/>Acute inhalation toxicity – LC50 (rat) &gt; 5,53 mg/l</p> <p><b><u>Irritation/Corrosion</u></b><br/>Not expected to be irritant. No adverse health effects were noted</p> <p><b><u>Sensitisation</u></b><br/>Conclusion/Summary : Not available.</p> <p><b><u>Mutagenicity</u></b><br/>Conclusion/Summary : Not available.</p> |
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**DYNAMAX HYPOL 80W/90 GL-4**

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|  | <p><b><u>Carcinogenicity</u></b><br/>Conclusion/Summary : Not available.</p> <p><b><u>Reproductive toxicity</u></b><br/>Conclusion/Summary : Not available.</p> <p><b><u>Teratogenicity</u></b><br/>Conclusion/Summary : Not available.</p> <p><b><u>Aspiration hazard</u></b><br/>Not available.</p> <p><b>Other information :</b><br/>Not available.</p> |
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**SECTION 12: ECOLOGICAL INFORMATION**

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| <b>12.1 Toxicity</b>                           | Poorly soluble mixture. May cause physical fouling of aquatic organisms. Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.   |
| <b>12.2 Persistence and degradability</b>      | Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.   |
| <b>12.3 Bioaccumulative potential</b>          | Contains components with the potential to bioaccumulate.   |
| <b>12.4 Mobility</b>                           | Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.   |
| <b>12.5 Results of PBT and vPvB assessment</b> | <b>PBT :</b> Not available.<br><b>vPvB :</b> Not available.  |
| <b>12.6 Other adverse effects</b>              | Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential. |

**SECTION 13: DISPOSAL CONSIDERATIONS**

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| <p><b><u>13.1 Product</u></b><br/><b>Material disposal</b><br/>Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.</p> <p><b><u>13.2. Packing</u></b><br/><b>Container disposal</b><br/>Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.</p> <p><b>Local legislation</b><br/>Disposal should be in accordance with applicable regional, national, and local laws and regulations.<br/>EU Waste Disposal Code (EWC): 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils<br/>Classification of waste is always the responsibility of the end user.</p> |
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**SECTION 14: TRANSPORT INFORMATION**

|                                  |               |
|----------------------------------|---------------|
| <b>Transport by land RID/ADR</b> | Not regulated |
|----------------------------------|---------------|

**DYNAMAX HYPOL 80W/90 GL-4**

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|-------------------------------|--|
| <b>Transport by sea IMDG</b>  | Nor regulated  |
| <b>Transport by air</b>       | Not regulated  |
| <b>Additional information</b> | Does not pose a hazard during transport and does not require special treatment (handling) procedure. |

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU****Annex XIV - List of substances subject to authorisation****Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:** Not applicable.**EU Regulation (EC) No 1272/2008 of the European Parliament and of the Council****Other EU regulations****Europe inventory :** All components are listed or exempted**Black List Chemicals :** Not listed**Priority List Chemicals :** Not listed**Integrated pollution prevention and control list (IPPC) - Air:** Not listed**Integrated pollution prevention and control list (IPPC) - Water:** Not listed**International regulations****Chemical Weapons Convention List Schedule I Chemicals:** Not listed**Chemical Weapons Convention List Schedule II Chemicals:** Not listed**Chemical Weapons Convention List Schedule III Chemicals:** Not listed**15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: OTHER INFORMATION****Reason for Revision:**

31.10.2017 - Classification of the mixture of the European Parliament and Council Regulation (EC) No. 2015/830

**16.1 Text of H-phrases (point 3):**

H226 Flammable liquid and vapour

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H411 Toxic to aquatic life with long lasting effects

H413 May cause long lasting harmful effects to aquatic life

**16.3 Other information:**

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.