## HYPAR-22

| Version | Revision Date: | Date of last issue: 19.10.2022 | Print Date: |
|---|---|---|---|
| 2.0 | 14.10.2026 | Date of first issue: 19.10.2022 | 14.10.2026 |

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HYPAR-22

Article-No. : 340049

**Manufacturer or supplier's details**

Company name of supplier : Klüber Lubrication NA LP
9010 County Road 2120
Tyler, Texas 75707
USA
Phone: +1 903 534 8021
Fax: +1 903 581 4376
info.us@klueber.com

Klüber Lubrication NA LP
32 Industrial Drive
Londonderry, NH 03053
USA
Phone: +1 603 647 4104
Fax: +1 603 647 4106
info.us@klueber.com

E-mail address of person responsible for the SDS : klna-productstewardship@klueber.com

Emergency telephone number : +52 442 2295708 (24hrs)

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

Recommended use : Lubricating oil

Restrictions on use : Restricted to professional users.

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the hazardous chemical or mixture according to the GHS and NOM-018-STPS-2015**

Reproductive toxicity : Category 2



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**Label elements, including precautionary statements and hazard pictograms according to the GHS and NOM-018-STPS-2015**

Hazard pictograms :

Signal word : Warning

Hazard statements : H361f Suspected of damaging fertility.

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

**Storage:**

P405 Store locked up.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mineral oil.

**Components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | >= 70 -< 90 |
| bis(nonylphenyl)amine | 36878-20-3 | >= 0.1 -< 1 |

## SECTION 4. FIRST AID MEASURES

If inhaled : Obtain medical attention.
Remove person to fresh air. If signs/symptoms continue, get medical attention.

Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Take off all contaminated clothing immediately.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
Wash off immediately with plenty of water.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If eye irritation persists, consult a specialist.

If swallowed : Move the victim to fresh air.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
Do NOT induce vomiting.
Obtain medical attention.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : Suspected of damaging fertility.
No symptoms known or expected.

Notes to physician : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

Hazardous combustion products : Carbon oxides

Specific extinguishing methods : Standard procedure for chemical fires.

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.<br>Exposure to decomposition products may be a hazard to health. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.<br>Use personal protective equipment.<br>Ensure adequate ventilation.<br>Do not breathe vapours or spray mist.<br>Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : | Try to prevent the material from entering drains or water courses.<br>Prevent further leakage or spillage if safe to do so.<br>Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : | Contain spillage, and then collect 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). |

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on safe handling | : | Do not breathe vapours or spray mist.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Wash hands and face before breaks and immediately after handling the product.<br>Do not get in eyes or mouth or on skin.<br>Do not get on skin or clothing.<br>Do not ingest.<br>Do not repack.<br>Do not re-use empty containers.<br>These safety instructions also apply to empty packaging which may still contain product residues.<br>Keep container closed when not in use. |
| Hygiene measures | : | Wash face, hands and any exposed skin thoroughly after handling. |

Conditions for safe storage : Store in original container.
Keep container closed when not in use.
Keep in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Store in accordance with the particular national regulations.
Keep in properly labelled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | VLE-PPT (Mist) | 5 mg/m3 | NOM-010-STPS-2014 (2014-06-19) |
| | | TWA (Inhalable particulate matter) | 5 mg/m3 | ACGIH (2013-03-01) |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | VLE-PPT (Mist) | 5 mg/m3 | NOM-010-STPS-2014 (2014-06-19) |
| | | TWA (Inhalable particulate matter) | 5 mg/m3 | ACGIH (2013-03-01) |

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal protective equipment**

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type A-P

Hand protection
Material : Nitrile rubber
Break through time : > 10 min
Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends

amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

| | | |
|---|---|---|
| Eye protection | : | Safety glasses with side-shields |
| Skin and body protection | : | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. |
| Protective measures | : | The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | colourless |
| Odour | : | hydrocarbon-like |
| Odour Threshold | : | No data available |
| pH | : | Not applicable |
| Melting point/ range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | >= 204 °C<br>Method: open cup |
| Flammability (solid, gas) | : | Not applicable |
| Self-ignition | : | No data available |
| Upper explosion limit / Upper | : | No data available |

| | | |
|---|---|---|
| flammability limit | | |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | < 0.001 hPa (20 °C) |
| Relative vapour density | : | No data available |
| Relative density | : | 0.849 (20 °C)<br>Reference substance: Water<br>The value is calculated |
| Density | : | 0.81 g/cm3 (20 °C) |
| Bulk density | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | insoluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | 22 mm2/s ( 40 °C) |
| Evaporation rate | : | No data available |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | No data available |
| Sublimation point | : | No data available |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No hazards to be specially mentioned. |
| Chemical stability | : | Stable under normal conditions. |

| | | |
|---|---|---|
| Possibility of hazardous reactions | : | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : | No conditions to be specially mentioned. |
| Incompatible materials | : | No materials to be especially mentioned. |
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Remarks: This information is not available. |
| Acute inhalation toxicity | : | Remarks: This information is not available. |
| Acute dermal toxicity | : | Remarks: This information is not available. |

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes |
| Acute inhalation toxicity | : | LC50 (Rat): > 5.53 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity | : | LD50 (Rabbit): > 5,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes |

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes |

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Product:**

Remarks : This information is not available.

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Assessment | : | No skin irritation |
| Result | : | No skin irritation |
| GLP | : | yes |

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Exposure time | : | 4 h |
| Assessment | : | No skin irritation |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |
| GLP | : | yes |

**Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

**Product:**

Remarks : This information is not available.

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Result | : | No eye irritation |
| Exposure time | : | 48 h |
| Assessment | : | No eye irritation |
| Method | : | OECD Test Guideline 405 |
| GLP | : | yes |

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Result | : | No eye irritation |
| Assessment | : | No eye irritation |
| Method | : | OECD Test Guideline 405 |
| GLP | : | yes |

**Respiratory or skin sensitisation**

**Skin sensitisation**

Based on available data, the classification criteria are not met.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Product:**

Remarks : This information is not available.

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Test Type | : | Buehler Test |
| Species | : | Guinea pig |
| Assessment | : | Did not cause sensitisation on laboratory animals. |
| Method | : | OECD Test Guideline 406 |
| Result | : | Did not cause sensitisation on laboratory animals. |
| GLP | : | no |

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Test Type | : | Maximisation Test |
| Species | : | Guinea pig |
| Assessment | : | Did not cause sensitisation on laboratory animals. |
| Method | : | OECD Test Guideline 406 |
| Result | : | Did not cause sensitisation on laboratory animals. |
| GLP | : | yes |

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Germ cell mutagenicity - Assessment | : | Tests on bacterial or mammalian cell cultures did not show mutagenic effects. |

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test Type: Ames test<br>Test system: Salmonella typhimurium<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 471 |

Result: negative
GLP: yes

Test Type: Micronucleus test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes

Test Type: gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Product:**

| | | |
|---|---|---|
| Remarks | : | No data available |

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Carcinogenicity - Assessment | : | No evidence of carcinogenicity in animal studies. |

**Reproductive toxicity**

Suspected of damaging fertility.

**Product:**

| | | |
|---|---|---|
| Effects on fertility | : | Remarks: No data available |
| Effects on foetal development | : | Remarks: No data available |

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Reproductive toxicity - Assessment | : | - Fertility -<br>No toxicity to reproduction<br>- Teratogenicity -<br>No effects on or via lactation |

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Reproductive toxicity - Assessment | : | - Fertility -<br>Some evidence of adverse effects on sexual function and fertility, based on animal experiments. |

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**Product:**

| | | |
|---|---|---|
| Remarks | : | No data available |

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Product:**

| | | |
|---|---|---|
| Remarks | : | No data available |

**Repeated dose toxicity**

**Product:**

| | | |
|---|---|---|
| Remarks | : | This information is not available. |

**Aspiration toxicity**

Based on available data, the classification criteria are not met.

**Product:**

This information is not available.

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

| | | |
|---|---|---|
| Remarks | : | Information given is based on data on the components and the toxicology of similar products. |

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Product:**

| | | |
|---|---|---|
| Toxicity to fish | : | Remarks: No data available |

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | Remarks: No data available |
| Toxicity to algae/aquatic plants | : | Remarks: No data available |
| Toxicity to microorganisms | : | Remarks: No data available |

**Components:**

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.0013 mg/l<br>End point: mortality<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203<br>Remarks: No toxicity at the limit of solubility |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Test Type: Immobilization<br>Method: OECD Test Guideline 202<br>GLP: yes |
| Toxicity to algae/aquatic plants | : | EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>End point: Growth inhibition<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br>Remarks: No toxicity at the limit of solubility |

**Persistence and degradability**

**Product:**

| | | |
|---|---|---|
| Biodegradability | : | Remarks: No data available |
| Physico-chemical removability | : | Remarks: No data available |

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Biodegradability | : | Result: not rapidly degradable<br>Biodegradation: 31 %<br>Exposure time: 28 d |

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Biodegradability | : | aerobic<br>Result: Not readily biodegradable.<br>Biodegradation: 0.4 - 0.6 %<br>Exposure time: 60 d<br>Method: OECD Test Guideline 309 |

**Bioaccumulative potential**

**Product:**

| | | |
|---|---|---|
| Bioaccumulation | : | Remarks: No data available |

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | Pow: > 6<br>Remarks: Information given is based on data obtained from similar substances. |

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Bioaccumulation | : | Bioconcentration factor (BCF): 1,730<br>Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible. |
| Partition coefficient: n-octanol/water | : | log Pow: > 7.6 (20 °C)<br>pH: 6.1 - 6.2 |

**Mobility in soil**

**Product:**

| | | |
|---|---|---|
| Mobility | : | Remarks: No data available |
| Distribution among environmental compartments | : | Remarks: No data available |



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**Components:**

**bis(nonylphenyl)amine:**

| | | |
|---|---|---|
| Distribution among environmental compartments | : | Koc: 107900, log Koc: 5.03 |

**Other adverse effects**

**Product:**

| | | |
|---|---|---|
| Additional ecological information | : | No information on ecology is available. |

**Components:**

**Distillates (petroleum), hydrotreated light paraffinic:**

| | | |
|---|---|---|
| Results of PBT and vPvB assessment | : | Non-classified PBT substance Non-classified vPvB substance |

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

| | | |
|---|---|---|
| Waste from residues | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not dispose of with domestic refuse.<br>Dispose of as hazardous waste in compliance with local and national regulations. |
| Contaminated packaging | : | Packaging that is not properly emptied must be disposed of as the unused product.<br>Dispose of waste product or used containers according to local regulations. |

## SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**UNRTDG**
Not regulated as a dangerous good

**IATA-DGR**
Not regulated as a dangerous good

**IMDG-Code**
Not regulated as a dangerous good

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

Not applicable for product as supplied.

**National Regulations**

**NOM-002-SCT**
Not regulated as a dangerous good

**Special precautions for user**

Not applicable

## SECTION 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

| | | |
|---|---|---|
| Federal Law for the control of chemical precursors, essential chemical products and machinery for producing capsules, tablets and pills. | : | Not applicable |

**International Regulations**

| | | |
|---|---|---|
| Montreal Protocol | : | Not applicable |
| Rotterdam Convention (Prior Informed Consent) | : | Not applicable |
| Stockholm Convention (Persistent Organic Pollutants) | : | Not applicable |

## SECTION 16. OTHER INFORMATION

| | | |
|---|---|---|
| Revision Date | : | 14.10.2026 |
| Date format | : | dd.mm.yyyy |

**Full text of other abbreviations**

| | | |
|---|---|---|
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| NOM-010-STPS-2014 | : | Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Control - Appendix 1 Occupational Exposure Limits |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| NOM-010-STPS-2014 / VLE-PPT | : | Time weighted average limit value |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule;

ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LSPN - List of Hazardous Notified Substances (Chile); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.
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