## Mabanol Helium Hyd HVLP 46 Plus

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1. Product identifier
**Trade name/designation:**

Mabanol Helium Hyd HVLP 46 Plus

### 1.2. Relevant identified uses of the substance or mixture and uses advised against
**Use of the substance/mixture:**
Hydraulic fluids

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**


**Mabanol GmbH & Co. KG**
Am Strandkai 1
20457 Hamburg
Germany
**Telephone:** 0049 (0) 40 36809988
**E-mail:** info@mabanol.com
**Website:** www.mabanol.com

**E-mail (competent person):** giznord@giz-nord.de


### 1.4. Emergency telephone number
Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture
### Classification according to Regulation (EC) No 1272/2008 [CLP]
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 2.2. Label elements
### Labelling according to Regulation (EC) No. 1272/2008 [CLP]
**Hazard components for labelling:**
Distillates (petroleum), solvent-dewaxed light paraffinic

| Supplemental hazard information | |
|---|---|
| EUH210 | Safety data sheet available on request. |

**Additional information:**
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

### 2.3. Other hazards
No data available

## Mabanol Helium Hyd HVLP 46 Plus

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| CAS No.: 64742-56-9<br>EC No.: 265-159-2<br>REACH No.:<br>01-2119480132-48 | **Distillates (petroleum), solvent-dewaxed light paraffinic**<br>Asp. Tox. 1 (H304)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 5,000 mg/kg<br>ATE (inhalation, dust/mist) > 5.53 mg/L | 50 – < 55 weight-% |

*Full text of H- and EUH-phrases: see section 16.*

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information:**
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Following inhalation:**
Remove casualty to fresh air and keep warm and at rest. When in doubt or if symptoms are observed, get medical advice.

**In case of skin contact:**
After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.

**After eye contact:**
Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**Following ingestion:**
Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

Observe risk of aspiration if vomiting occurs.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**
Foam. Extinguishing powder. Carbon dioxide (CO2). Sand.
In case of major fire and large quantities: Water spray jet. Water mist.

**Unsuitable extinguishing media:**
Full water jet.

### 5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

**Hazardous combustion products:**
In case of fire: Gases/vapours, toxic.
In case of fire may be liberated: Nitrogen oxides (NOx). Carbon monoxide. Carbon dioxide (CO2). Sulphur dioxide (SO2).

### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Use personal protection equipment. Ventilate affected area. Special danger of slipping by leaking/spilling product.

#### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

**For cleaning up:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Personal protection equipment: see section 8
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

### Protective measures

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8). Avoid: generation/formation of aerosols. Generation/formation of mist.

**Fire prevent measures:**

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.
Fire class: B (Fires of liquids or liquid turning substances).

### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

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

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

**Hints on storage assembly:**

Do not store together with: Gas. Explosives. P8 OXIDISING LIQUIDS AND SOLIDS. Radioactive substances. Infectious substances.

**Storage class (TRGS 510, Germany):** 10 – Combustible liquids that cannot be assigned to any of the above storage classes

**Further information on storage conditions:**

Temperature control required. Keep container tightly closed.
Protect against: Light. UV-radiation/sunlight. Air.

### 7.3. Specific end use(s)
No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values
No data available

#### 8.1.2. Biological limit values
No data available

#### 8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type<br>② Exposure route |
|---|---|---|
| **Distillates (petroleum), solvent-dewaxed light paraffinic**<br>CAS No.: 64742-56-9<br>EC No.: 265-159-2 | 2.73 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Distillates (petroleum), solvent-dewaxed light paraffinic**<br>CAS No.: 64742-56-9<br>EC No.: 265-159-2 | 5.58 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, local effects |
| **Distillates (petroleum), solvent-dewaxed light paraffinic**<br>CAS No.: 64742-56-9<br>EC No.: 265-159-2 | 1.19 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, local effects |
| **Distillates (petroleum), solvent-dewaxed light paraffinic**<br>CAS No.: 64742-56-9<br>EC No.: 265-159-2 | 0.97 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Distillates (petroleum), solvent-dewaxed light paraffinic**<br>CAS No.: 64742-56-9<br>EC No.: 265-159-2 | 0.74 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|---|---|---|
| **Distillates (petroleum), solvent-dewaxed light paraffinic**<br>CAS No.: 64742-56-9<br>EC No.: 265-159-2 | 9.33 mg/kg | ① PNEC secondary poisoning |

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls
Provide adequate ventilation.

#### 8.2.2. Personal protection equipment

**Eye/face protection:**
Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166.

**Skin protection:**
Tested protective gloves must be worn (EN ISO 374).
Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). FKM (fluoro rubber).
Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable protective clothing: flame-resistant.

**Respiratory protection:**

Usually no personal respirative protection necessary.
Respiratory protection necessary at: exceeding exposure limit values. aerosol or mist formation. Suitable respiratory protection apparatus: aerosol or mist formation: Filtering device (full mask or mouthpiece) with filter: A2, A2/P2, ABEK.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/ particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

### 8.2.3. Environmental exposure controls

No information available.

### 8.3. Additional information

air limit values:
Possibility of exposure to Aerosol (Mineral oil)
Limit value (TLV-TWA) = 5 mg/m³ (Source: ACGIH)
Limit value (TLV-STEL) = 10 mg/m³ (Source: ACGIH)

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Physical state:** Liquid
**Colour:** clear
**Odour:** not determined
**flammability:** No data available

**Safety relevant basis data**

| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| pH | *No data available* | | |
| Melting point | *No data available* | | |
| Freezing point | *No data available* | | |
| Initial boiling point and boiling range | *No data available* | | |
| Flash point | 214 °C | | ① EN ISO 2592 EN ISO 2592 |
| Evaporation rate | *No data available* | | |
| Auto-ignition temperature | *No data available* | | |
| Upper/lower flammability or explosive limits | *No data available* | | |
| Vapour pressure | *No data available* | | |
| Vapour density | *No data available* | | |
| Density | 0.8749 g/cm³ | 15 °C | ① DIN 51757 |
| Bulk density | *not applicable* | | |
| Water solubility | Immiscible | | |
| Dynamic viscosity | *No data available* | | |
| Kinematic viscosity | 49.18 mm²/s | 40 °C | ① EN ISO 3104 |
| Pour point | -36 °C | | ① ISO 3016 |

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions
No known hazardous reactions.

### 10.4. Conditions to avoid
No information available.

### 10.5. Incompatible materials
Oxidising agent, strong.

### 10.6. Hazardous decomposition products
No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Toxicological information**

| **Acute Toxicity Estimate for Mixtures** | |
|---|---|
| **ATE (inhalation, vapour):** >20 mg/L | |
| **ATE (inhalation, dust/mist):** >5 mg/L | |
| **Distillates (petroleum), solvent-dewaxed light paraffinic** | CAS No.: 64742-56-9 EC No.: 265-159-2 |
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) | |
| **$LD_{50}$ dermal:** >5,000 mg/kg (Rabbit) | |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >5.53 mg/L 4 h | |

**Acute oral toxicity:**
Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**
Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**
Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:**
Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation:**
Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:**
Based on available data, the classification criteria are not met.

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

**Reproductive toxicity:**
Based on available data, the classification criteria are not met.

**STOT-single exposure:**
Based on available data, the classification criteria are not met.

**STOT-repeated exposure:**
Based on available data, the classification criteria are not met.

**Aspiration hazard:**
Based on available data, the classification criteria are not met.

**Additional information:**
Frequently or prolonged contact with skin may cause dermal irritation.

### 11.2. Information on other hazards

**Endocrine disrupting properties:**
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1. Toxicity

| **Distillates (petroleum), solvent-dewaxed light paraffinic** CAS No.: 64742-56-9 EC No.: 265-159-2 |
|---|
| **$LC_{50}$:** >100 mg/L 4 d (fish, Pimephales promelas (fathead minnow)) |
| **$EC_{50}$:** >10,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) |
| **NOEC:** 10 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) |
| **$ErC_{50}$:** >100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |

### 12.2. Persistence and degradability

| **Distillates (petroleum), solvent-dewaxed light paraffinic** CAS No.: 64742-56-9 EC No.: 265-159-2 |
|---|
| **Biodegradation:** — |
| **Remark:** Not readily biodegradable (according to OECD criteria) |

**Additional information:**
The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

### 12.3. Bioaccumulative potential

**Accumulation / Evaluation:**
No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

| **Distillates (petroleum), solvent-dewaxed light paraffinic** CAS No.: 64742-56-9 EC No.: 265-159-2 |
|---|
| **Results of PBT and vPvB assessment:** This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
The above statement applies to the substances contained in the product from 0.1%.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
The above statement applies to the substances contained in the product from 0.1%.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### 13.1.1. Product/Packaging disposal

### Waste codes/waste designations according to EWC/AVV

**Waste code packaging**

| | |
|---|---|
| 15 01 10 * | packaging containing residues of or contaminated by dangerous substances |

**: Evidence for disposal must be provided.*

### Waste treatment options

**Appropriate disposal / Product:**
Consult the appropriate local waste disposal expert about waste disposal.

**Appropriate disposal / Package:**
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.1. UN number or ID number** | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| **14.2. UN proper shipping name** | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| **14.3. Transport hazard class(es)** | | | |
| not relevant | not relevant | not relevant | not relevant |
| **14.4. Packing group** | | | |
| not relevant | not relevant | not relevant | not relevant |
| **14.5. Environmental hazards** | | | |
| not relevant | not relevant | not relevant | not relevant |
| **14.6. Special precautions for user** | | | |
| not relevant | not relevant | not relevant | not relevant |

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

**Restrictions on use:**

Use restriction according to REACH annex XVII, no.: 75.

**Other regulations (EU):**

This product is not assigned to a hazard category.
Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: No information available.
Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: Not subject to the SEVESO III directive.
Observe in addition any national regulations!

#### 15.1.2. National regulations

**[DE] National regulations**

**Störfallverordnung (12. BImschV)**

**for substances contained in the product:**

This product is not assigned to a hazard category.

**Technische Anleitung zur Reinhaltung der Luft (TA-Luft)**

**Klasse 1:**

5.2.5: organic substances, to be indicated as total carbon at m >= 0.50 kg/h: conc. 50 mg/m³.

**Anteil 1:**

99 %

**Water hazard class**

**WGK:**

1 - slightly hazardous to water

**Remark:**

Self-classification (mixture; calculation rule).

### 15.2. Chemical Safety Assessment
not applicable.

### 15.3. Additional information
Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not relevant.
Water hazard class (WGK): 1 (slightly hazardous to water).

## SECTION 16: Other information

### 16.1. Indication of changes
No data available

### 16.2. Abbreviations and acronyms
ACGIH: American Conference of Governmental Industrial Hygienists
ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
$LC_{50}$: Lethal concentration, 50 percent
$LD_{50}$: Lethal dose, 50 percent
NIOSH: National Institute of Occupational Safety and Health
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OEL: Occupational Exposure imit (Arbeitsplatzgrenzwert)
OSHA: Occupational Safety and Health Administration
PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)
PBT: persistent bioaccumulative toxic
PNEC: predicted no effect concentration
REL: Recommended exposure limit (Empfohlene Expositionsgrenze)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)
SVHC: substance of very high concern
TLV: Threshold Limit Values (Schwellwert Grenzwerte)
TRGS Technische Regeln für Gefahrstoffe
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)
VOC: Volatile Organic Compounds
vPvB: very persistent and very bioaccumulative
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

### 16.3. Key literature references and sources for data
No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements | |
|---|---|
| H304 | May be fatal if swallowed and enters airways. |

### 16.6. Training advice

No data available

### 16.7. Additional information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:
health hazards: Calculation method.
Environmental hazards: Calculation method.
Physical hazards: On basis of test data.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.