

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 1/12

## Mabanol Stamp 91 AS

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

#### 1.1. Product identifier

Trade name/designation:

Mabanol Stamp 91 AS

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Metalworking 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 heavy paraffinic

##### Supplemental hazard information

EUH210 Safety data sheet available on request.

Additional information:

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 substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### \* 3.2. Mixtures

Description:

Mixture of base oils and additives.

Additional information:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 2/12

## Mabanol Stamp 91 AS

### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 946-212-5 REACH No.: 01-2120743157-55	<b>Benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs., para-, sodium salts</b> Eye Irrit. 2 (H319) ⚠ Warning	5 - < 10 weight-%
CAS No.: 64742-65-0 EC No.: 265-169-7 REACH No.: 01-2119471299-27	<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> Asp. Tox. 1 (H304) ⚠ Danger <b>Acute Toxicity Estimate</b> ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, dust/mist) > 5.53 mg/L	1 - < 5 weight-%
CAS No.: 68411-46-1 EC No.: 270-128-1 REACH No.: 01-2119491299-23	<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> Aquatic Chronic 3 (H412), Repr. 2 (H361f) ⚠ Warning <b>Acute Toxicity Estimate</b> ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg	1 - < 3 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:

When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### Following inhalation:

Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

#### Following ingestion:

Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with water. Where appropriate artificial ventilation.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Water spray. 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 3/12

## Mabanol Stamp 91 AS

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Sulphur oxides.

### 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

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. 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. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Keep away from sources of ignition - No smoking.

#### 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. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

##### For containment:

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

##### For cleaning up:

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. 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). Use only in well-ventilated areas. Put lids on containers immediately after use. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Use only antistatically equipped (spark-free) tools.

##### Fire prevent measures:

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

##### Environmental precautions:

Do not empty into drains. Do not allow to enter into soil/subsoil. Shafts and sewers must be protected from entry of the product.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 4/12

## Mabanol Stamp 91 AS

### 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.

#### Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area. Protect containers against damage. Provide earthing of containers, equipment, pumps and ventilation facilities. Floors should be impervious, resistant to liquids and easy to clean.

#### Hints on storage assembly:

Keep away from: Oxidizing agent.

Do not store together with: Food and feedingstuffs.

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

#### Further information on storage conditions:

Recommended storage temperature: 5 - 40°C.

Protect against: Frost. Heat. UV-radiation/sunlight. Humidity. Water.

Maximum storage period (time): max. 24 month(s).

### 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 ② Exposure route
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7	2.73 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7	5.58 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7	1.19 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7	0.97 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7	0.74 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 5/12

## Mabanol Stamp 91 AS

Substance name	DNEL value	① DNEL type ② Exposure route
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.8 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.31 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.22 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.44 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.05 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7	9.33 mg/kg	① PNEC secondary poisoning
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.034 mg/L	① PNEC aquatic, freshwater
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.003 mg/L	① PNEC aquatic, marine water
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	10 mg/L	① PNEC sewage treatment plant
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.446 mg/kg	① PNEC sediment, freshwater
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.045 mg/kg	① PNEC sediment, marine water
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	17.6 mg/kg	① PNEC soil
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1	0.8333 mg/kg	① PNEC secondary poisoning

## \* 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 6/12

## Mabanol Stamp 91 AS

area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

### 8.2.2. Personal protection equipment

#### Eye/face protection:

Eye glasses with side protection (EN 166).

#### Skin protection:

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. Tested protective gloves must be worn (EN ISO 374). Do not wear gloves near rotary machines and tools.

Wearing time with permanent contact:

Thickness of the glove material: 0,70 mm. Breakthrough time:: > 480 min.

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). PVA (Polyvinyl alcohol).

Wearing time with occasional contact (splashes):

Thickness of the glove material: 0,40 mm. Breakthrough time:: > 30 min.

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). PVA (Polyvinyl alcohol).

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. Check leak tightness/impermeability prior to use.

Suitable protective clothing: Not readily flammable.

#### Respiratory protection:

Usually no personal respiratory protection necessary.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist formation. Suitable respiratory protection apparatus: Combination filtering device.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** brown

**Odour:** not determined

**flammability:** No data available

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	> 220 °C		② 1013 hPa
Flash point	171 °C		① EN ISO 2592
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	0.6 - 6.5 Vol-%		
Vapour pressure	No data available		
Vapour density	No data available		
Density	0.975 g/cm <sup>3</sup>	15 °C	① DIN EN ISO 12185
Bulk density	not applicable		
Water solubility	practically insoluble	20 °C	
Dynamic viscosity	No data available		
Kinematic viscosity	90 mm <sup>2</sup> /s	40 °C	① EN ISO 3104

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 7/12

## Mabanol Stamp 91 AS

### 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 stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

Oxidising agent, strong.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

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

<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1
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<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) OECD 401
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<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat) OECD 402
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<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7
--

<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat)
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<b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (Rabbit)
--

<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5.53 mg/L 4 h (Rat)
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#### Acute oral toxicity:

No data available. The statement is derived from the properties of the single components.

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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 8/12

## Mabanol Stamp 91 AS

### Aspiration hazard:

Based on available data, the classification criteria are not met.  
For viscosity data, see section 9.

### Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

### 11.2. Information on other hazards

#### Endocrine disrupting properties:

No information available.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1
<b>LC<sub>50</sub>:</b> >100 mg/L (fish, Danio rerio (zebrafish)) OECD 203
<b>EC<sub>50</sub>:</b> >100 mg/L (Algae/water plant, Desmodismus subspicatus) OECD 201
<b>EC<sub>50</sub>:</b> 51 mg/L (crustaceans, Daphnia magna (Big water flea)) OECD 202
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7
<b>LC<sub>50</sub>:</b> >100 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
<b>EC<sub>50</sub>:</b> >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
<b>EC<sub>50</sub>:</b> >100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

### Aquatic toxicity:

Harmless to aquatic organisms up to the tested concentration.

### Additional ecotoxicological information:

There are no data available on the mixture itself. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).  
Do not allow uncontrolled discharge of product into the environment.

### \* 12.2. Persistence and degradability

<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria).
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria)

### Abiotic degradation:

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

### Biodegradation:

Part of the components is biodegradable.

### \* 12.3. Bioaccumulative potential

<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1
<b>Log K<sub>ow</sub>:</b> 6.66
<b>Bioconcentration factor (BCF):</b> 4,176

### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 9/12

## Mabanol Stamp 91 AS

### \* 12.5. Results of PBT and vPvB assessment

<b>Benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs., para-, sodium salts</b> EC No.: 946-212-5
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b> CAS No.: 68411-46-1 EC No.: 270-128-1
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b> CAS No.: 64742-65-0 EC No.: 265-169-7
<b>Results of PBT and vPvB assessment:</b> 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.

### 12.6. Endocrine disrupting properties

No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### \* 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. 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 product

12 01 07 *	mineral-based machining oils free of halogens (except emulsions and solutions)
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\*: 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. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

### 13.2. Additional information

Never use pressure to empty container.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
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.
<b>14.2. UN proper shipping name</b>			
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.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 10/12

## Mabanol Stamp 91 AS

### 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

##### 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.

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)

###### Remark:

Weight fraction (Number 5.2.5. I): <5 %.

No flammable liquid according to BetrSichV.

##### Water hazard class

###### WGK:

1 - slightly hazardous to water

###### Remark:

Self-classification (mixture; calculation rule).

### 15.2. Chemical Safety Assessment

No information available.

### 15.3. Additional information

Water hazard class (WGK): 1 (slightly hazardous to water).

## SECTION 16: Other information

### \* 16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
1.4.	Emergency telephone number
2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods
14.3.	Transport hazard class(es)
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

### 16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Apr 2025

Print date: 29 Apr 2025

Version: 2



Page 11/12

## Mabanol Stamp 91 AS

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<sub>50</sub>: Lethal concentration, 50 percent  
LD<sub>50</sub>: 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 limit (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.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 29 Apr 2025

**Print date:** 29 Apr 2025

**Version:** 2



Page 12/12

## Mabanol Stamp 91 AS

### 16.7. Additional information

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.

\* Data changed compared with the previous version.