

SAFETY DATA SHEET

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

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

1.1. Product identifier

Trade name/designation:

Mabanol Protect 24 DW

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

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

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]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS08

Health hazard

Signal word: Danger

Hazard components for labelling:

Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates

hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

Precautionary Statements Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/Emergency telephone number.

P331 Do NOT induce vomiting.

Precautionary Statements Storage

P405 Store locked up.

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2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of base oils and additives.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-48-9 EC No.: 918-481-9 REACH No.: 01-2119457273-39	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates Asp. Tox. 1 H304-EUH066	55 - < 60 weight-%
CAS No.: 57855-77-3 EC No.: 260-991-2 REACH No.: 01-2119980985-16	calcium bis(dinonylnaphthalenesulphonate) Aquatic Chronic 4, Eye Irrit. 2, Skin Irrit. 2 H315-H319-H413	1 - < 5 weight-%
CAS No.: 128-37-0 EC No.: 204-881-4 REACH No.: 01-2119565113-46	2,6-di-tert-butyl-p-cresol Aquatic Acute 1, Aquatic Chronic 1 H400-H410	< 0.25 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.

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.

After ingestion:

Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with water. Where appropriate artificial ventilation. Observe risk of aspiration if vomiting occurs.

Self-protection of the first aider:

No direct artificial respiration to be given by first aider.

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

Cough. Respiratory complaints. Dyspnoea. Fever. Vomiting. Pneumonia. Symptoms can occur only after several hours.

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 (CO₂). Water spray. Water mist.

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Unsuitable extinguishing media:

Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x). smoke and other products of incomplete combustion.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Do not inhale explosion and combustion gases. 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.

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.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

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. Keep away from sources of ignition - No smoking. Use only antistatically equipped (spark-free) tools.

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Fire prevent measures:

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharges. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Reignition possible over considerable distance. Keep away from sources of ignition - No smoking.

Environmental precautions:

Do not empty into drains.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Take off contaminated clothing and wash it before reuse. Apply skin care products after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Take precautionary measures against static discharge. Provide earthing of containers, equipment, pumps and ventilation facilities.

Packaging materials:

Only use containers specifically approved for the substance/product.

Suitable container/equipment material: Steel. Refined steel.

Unsuitable container/equipment material: NR (natural rubber, natural latex). NBR (Nitrile rubber). Butyl caoutchouc (butyl rubber).

Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area. Keep container tightly closed in a cool, well-ventilated place. Protect containers against damage. 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: 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): 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

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates CAS No.: 64742-48-9	① 300 mg/m ³ ② 600 mg/m ³ ⑤ (C9-C14 Aliphaten)
DFG (DE)	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates CAS No.: 64742-48-9	① 50 ppm (300 mg/m ³) ② 100 ppm (600 mg/m ³)
TRGS 900 (DE)	2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	① 10 mg/m ³ ② 40 mg/m ³ ⑤ (Aerosol und Dampf, einatembare Fraktion)

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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
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	5.8 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	8.3 mg/kg	① DNEL worker ② dermal, long-term, systemic

Substance name	PNEC Value	① PNEC type
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	0.004 mg/l	① PNEC aquatic, freshwater
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	0.0004 mg/l	① PNEC aquatic, marine water
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	100 mg/l	① PNEC sewage treatment plant
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	1.29 mg/kg	① PNEC sediment, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must 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 (DIN EN 166).

Skin protection:

Tested protective gloves must be worn (EN ISO 374).

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. Check leak tightness/impermeability prior to use.

Suitable material:

Wearing time with permanent contact:

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

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

Wearing time with occasional contact (splashes):

NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber). PVA (Polyvinyl alcohol). Thickness of the glove material: 0,40 mm. Breakthrough time (maximum wearing time): > 30 min.

Breakthrough time (maximum wearing time): 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.

Respiratory protection:

Usually no personal respirative 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 (EN 14387).

8.2.3. Environmental exposure controls

No data available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: dark brown

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	64.5 °C		DIN EN ISO 2592	
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	0.6 - 6.5 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.839 g/cm ³	15 °C	DIN EN ISO 12185	
Bulk density	<i>not determined</i>			
Water solubility	poorly soluble	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	4.5 mm ² /s	40 °C	DIN EN ISO 3104	

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 hazardous reaction when handled and stored according to provisions.

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 toxicological effects

Acute oral toxicity:

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

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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.

Subacute dermal toxicity: Has degreasing effect on the skin.

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

not sensitising.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

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:

May be fatal if swallowed and enters airways. For viscosity data, see section 9.

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

harmless to aquatic organisms up to the tested concentration.

12.2. Persistence and degradability

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

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

12.6. Other adverse effects

Damage can be caused through mechanical influence of the product (eg. sticking). Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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Waste code product:

12 01 07 * mineral-based machining oils free of halogens (except emulsions and solutions)

*: Evidence for disposal must be provided.

Waste treatment options


Appropriate disposal / Product:

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

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.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	UN 9003	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.	SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
No dangerous good in sense of these transport regulations.	 9	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.4. Packing group			
No dangerous good in sense of these transport regulations.	III	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.5. Environmental hazards			
No data available			
14.6. Special precautions for user			
No data available			

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

No data available

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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):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

for substances contained in the product:

This product is not assigned to a hazard category.

Technische Anleitung Luft (TA-Luft)

Remark:

Number 5.2.5.I: weight fraction in %: < 5

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

Remark:

Self-classification (mixture; calculation rule).

15.2. Chemical Safety Assessment

No information available.

15.3. Additional information

Keine brennbare Flüssigkeit gemäß BetrSichV.

SECTION 16: Other information

16.1. Indication of changes

No data available

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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
LC50: Lethal concentration, 50 percent
LD50: 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]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
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16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

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.