

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 1/16

Mabanol Krypton Eco UTTO

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

1.1. Product identifier

Trade name/designation:

Mabanol Krypton Eco UTTO

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

Use of the substance/mixture:

Gear oil

* 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:

Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50; zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate); Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic

Supplemental hazard information

EUH208	Contains Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 [EC-No: 701-205-4]. May produce an allergic reaction.
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

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 2/16

Mabanol Krypton Eco UTTO

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

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.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-55-8 EC No.: 265-158-7 REACH No.: 01-2119487077-29	Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1 (H304) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 5.53 mg/L	1 - < 3 weight-%
CAS No.: 4259-15-8 EC No.: 224-235-5 REACH No.: 01-2119493635-27	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) Aquatic Chronic 2 (H411), Eye Dam. 1 (H318) Danger Specific concentration limit (SCL) Eye Dam. 1; H318: 50.1% ≤ C < 100% Acute Toxicity Estimate ATE (oral) > 3,100 mg/kg ATE (dermal) > 5,000 mg/kg	1 - < 3 weight-%
EC No.: 701-205-4	Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 Aquatic Chronic 4 (H413), Skin Sens. 1B (H317) Warning Specific concentration limit (SCL) Skin Sens. 1B; H317: 2% ≤ C < 100% Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg	0.5 - < 1 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. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

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.

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 3/16

Mabanol Krypton Eco UTTO

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 (NO_x). 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. Avoid contact with skin, eyes and clothes. 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

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 4/16

Mabanol Krypton Eco UTTO

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 contact with skin, eyes and clothes. Avoid: generation/formation of aerosols. Generation/formation of mist. Do not breathe gas/fumes/vapour/spray.

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

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
DFG (DE) from 10 Oct 2023	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	① 0.1 mg/m ³ ② 0.4 mg/m ³ ⑤ (Verbindungen, anorganisch; alveolengängige Fraktion)
DFG (DE) from 10 Oct 2023	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	① 2 mg/m ³ ② 4 mg/m ³ ⑤ (Verbindungen, anorganisch; einatembare Fraktion)

8.1.2. Biological limit values

No data available

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 5/16

Mabanol Krypton Eco UTTO

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	2.73 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	5.58 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	1.19 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	0.97 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	0.74 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	6.6 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	1.67 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	9.6 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	4.8 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	25.55 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 6/16

Mabanol Krypton Eco UTTO

Substance name	DNEL value	① DNEL type ② Exposure route
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	11.8 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	668 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	267.2 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	8.33 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	4.17 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 7/16

Mabanol Krypton Eco UTTO

Substance name	DNEL value	① DNEL type ② Exposure route
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	100 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	50 mg/kg bw/day	① DNEL Consumer ② Acute - dermal, systemic effects
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	1.7 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	9.33 mg/kg	① PNEC secondary poisoning
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	0.004 mg/L	① PNEC aquatic, freshwater
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	0.0046 mg/L	① PNEC aquatic, marine water
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	0.038 mg/L	① PNEC sewage treatment plant
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	0.322 mg/L	① PNEC sediment, freshwater
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	0.062 mg/kg	① PNEC soil

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 8/16

Mabanol Krypton Eco UTTO

Substance name	PNEC Value	① PNEC type
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	8.33 mg/kg	① PNEC secondary poisoning
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	1 mg/L	① PNEC aquatic, freshwater
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	1 mg/L	① PNEC aquatic, marine water
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	1,000 mg/L	① PNEC sewage treatment plant
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	43,500 mg/kg	① PNEC sediment, freshwater
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	3,480 mg/kg	① PNEC sediment, marine water

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 9/16

Mabanol Krypton Eco UTTO

Substance name	PNEC Value	① PNEC type
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	8,850 mg/kg	① PNEC soil
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	33,333 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). FKM (fluoro rubber). CR (polychloroprene, chloroprene 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 respiratory protection necessary.

Respiratory protection necessary at: exceeding exposure limit values. aerosol or mist formation. Suitable respiratory protection apparatus: 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 Aerosols (Mineral oil)

Limit value (TLV-TWA) = 5 mg/m³ (Source: ACGIH)

Limit value (TLV-STEL) = 10 mg/m³ (Source: ACGIH)

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 10/16

Mabanol Krypton Eco UTTO

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: clear

Odour: not determined

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	No data available		
Flash point	225 °C		
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	0.8819 g/cm ³	15 °C	① DIN 51757
Bulk density	not applicable		
Water solubility	Immiscible		
Dynamic viscosity	No data available		
Kinematic viscosity	55 mm ² /s	40 °C	① EN ISO 3104
Pour point	-48 °C		

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.

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4

Page 11/16



Mabanol Krypton Eco UTTO

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 (oral):	>2,000 mg/kg
ATE (dermal):	>2,000 mg/kg
ATE (inhalation, vapour):	>20 mg/L
ATE (inhalation, dust/mist):	>5 mg/L
Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8 EC No.: 265-158-7	
LD ₅₀ oral:	>5,000 mg/kg (Rat) OECD 401
LD ₅₀ dermal:	>2,000 mg/kg (Rabbit) OECD 402
LC ₅₀ Acute inhalation toxicity (vapour):	>5.53 mg/L 4 h (Rat) OECD 403
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5	
LD ₅₀ oral:	>3,100 mg/kg (Rat)
LD ₅₀ dermal:	>5,000 mg/kg (Rabbit)
Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4	
LD ₅₀ oral:	>5,000 mg/kg (Rat) OECD 423
LD ₅₀ dermal:	>5,000 mg/kg (Rat) OECD 402

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:

Contains Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 [EC-No: 701-205-4]. May produce an allergic reaction.

May cause sensitisation especially in sensitive humans.

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.

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 12/16

Mabanol Krypton Eco UTTO

* 11.2. Information on other hazards

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.

Other information:

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8
EC No.: 265-158-7

LC₅₀: >100 mg/L 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203

EC₅₀: >10,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202

NOEC: >100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

NOEC: >10 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5

LC₅₀: 46 mg/L 4 d (fish)

Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4

LC₅₀: >1,000 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203

EC₅₀: >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

ErC₅₀: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

12.2. Persistence and degradability

Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8
EC No.: 265-158-7

Biodegradation: —

Remark: Not readily biodegradable (according to OECD criteria)

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5

Biodegradation: —

Remark: Not readily biodegradable (according to OECD criteria)

Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4

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

Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8
EC No.: 265-158-7

Log K_{ow}: > 3.5

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5

Log K_{ow}: 3.59

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 13/16

Mabanol Krypton Eco UTTO

Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4

Log Kow: 5.8

Bioconcentration factor (BCF): 45 Species: Oncorhynchus mykiss (Rainbow trout)

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

* 12.5. Results of PBT and vPvB assessment

Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic CAS No.: 64742-55-8
EC No.: 265-158-7

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) CAS No.: 4259-15-8 EC No.: 224-235-5

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Benzenesulfonic acid, para-, monoalkylation products with C14-C18 branched olefins (C15 rich) derived from propene oligomerization, calcium salt, overbased including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 EC No.: 701-205-4

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. 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.

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 14/16

Mabanol Krypton Eco UTTO

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 $m \geq 0.50$ kg/h: conc. 50 mg/m³.

Anteil 1:

95 %

Water hazard class

WGK:

1 - slightly hazardous to water

Remark:

Self-classification (mixture; calculation rule).

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 15/16

Mabanol Krypton Eco UTTO

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

1.3.	Details of the supplier of the safety data sheet
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
5.2.	Special hazards arising from the substance or mixture
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.2.	Information on other hazards
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.3.	Additional information
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

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)

SAFETY DATA SHEET

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

Revision date: 18 Jul 2024

Print date: 18 Jul 2024

Version: 4



Page 16/16

Mabanol Krypton Eco UTTO

SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit (Kurzzzeitgrenzwert) (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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6. 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.

* Data changed compared with the previous version.