

SAFETY DATA SHEET

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

Revision date: 11 Oct 2023

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Version: 3



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

* 1.1. Product identifier

Trade name/designation:

Mabanol Cut Lub 14 G

UFI:

DTT9-ADEW-9H73-9PMW

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]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|--|--------------------------|
| Serious eye damage/eye irritation (Eye Irrit. 2) | H319: Causes serious eye irritation. | |
| Aspiration hazard (Asp. Tox. 1) | H304: May be fatal if swallowed and enters airways. | |
| Hazardous to the aquatic environment (Aquatic Chronic 3) | H412: Harmful to aquatic life with long lasting effects. | |

* 2.2. Label elements

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

Hazard pictograms:



GHS08

Health hazard



GHS07

Exclamation mark

Signal word: Danger

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Hazard components for labelling:

1-[N,N-Bis-(2-ethylhexyl)aminomethyl]-tolutriazol; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts; C18-C50 branched, cyclic and linear hydrocarbons - Distillates

Hazard statements for health hazards

| | |
|------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H319 | Causes serious eye irritation. |

Hazard statements for environmental hazards

| | |
|------|--|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|--|

Supplemental hazard information

| | |
|--------|---|
| EUH208 | Contains 1-[N,N-Bis-(2-ethylhexyl)aminomethyl]-tolutriazol. May produce an allergic reaction. |
|--------|---|

Precautionary statements Prevention

| | |
|------|--|
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing and eye protection/face protection. |

Precautionary statements Response

| | |
|-------------|---|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P331 | Do NOT induce vomiting. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

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.

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|--|-------------------------|
| CAS No.: 848301-69-9 EC No.: 482-220-0 REACH No.: 01-0000020163-82 | C18-C50 branched, cyclic and linear hydrocarbons - Distillates Asp. Tox. 1 (H304) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, vapour) > 5 mg/L | 75 - < 80 weight-% |
| CAS No.: 68442-22-8 EC No.: 270-478-5 REACH No.: 01-2119948548-22 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) Danger | 1 - < 2.5 weight-% |
| EC No.: 939-700-4 REACH No.: 01-2119982395-25 | 1-[N,N-Bis-(2-ethylhexyl)aminomethyl]-tolutriazol The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. | 0.1 - < 0.5 weight-% |

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| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|--|--|--------------------|
| 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 (H400), Aquatic Chronic 1 (H410)  Warning Acute Toxicity Estimate ATE (oral) > 2,930 mg/kg ATE (dermal) > 2,000 mg/kg | < 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.

Following ingestion:

Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with water. 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

The following symptoms may occur: 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. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

* 5.1. Extinguishing media

Suitable extinguishing media:

Foam. Extinguishing powder. Carbon dioxide (CO₂). 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: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x). Acrolein.

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.

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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. Remove all sources of ignition.

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:

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. 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.

Fire prevent measures:

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

Environmental precautions:

Do not allow to enter into surface water or drains.

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. Ensure adequate ventilation of the storage area. Only use containers specifically approved for the substance/product.

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

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Further information on storage conditions:

Recommended storage temperature: 5 - 40°C.

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

storage stability: 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

| 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) from 1 Jul 2012 | 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 | ① 10 mg/m ³ ② 40 mg/m ³ ⑤ (Aerosol und Dampf, einatembare Fraktion) DFG, Y, 11 |

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 |
|--|------------------------|---|
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 8.05 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 11.4 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 | 5.8 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 | 8.3 mg/kg | ① DNEL worker ② Long-term - dermal, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|--|------------|------------------------------|
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 4 µg/L | ① PNEC aquatic, freshwater |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 4.6 µg/L | ① PNEC aquatic, marine water |

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| Substance name | PNEC Value | ① PNEC type |
|--|---------------|--------------------------------------|
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 100 mg/L | ① PNEC sewage treatment plant |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 0.04508 mg/kg | ① PNEC sediment, freshwater |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 0.00451 mg/kg | ① PNEC sediment, marine water |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 0.00676 mg/kg | ① PNEC soil |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 10.67 mg/kg | ① PNEC secondary poisoning |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 | 45 µg/L | ① PNEC aquatic, intermittent release |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 | 0.004 mg/L | ① PNEC aquatic, freshwater |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 | 0.0004 mg/L | ① PNEC aquatic, marine water |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 | 100 mg/L | ① PNEC sewage treatment plant |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 | 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 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 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:

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

Wearing time with permanent contact:

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). PVA (Polyvinyl alcohol). Thickness of the glove material: 0,70 mm. Breakthrough time: > 480 min.

Wearing time with occasional contact (splashes):

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

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

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.

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.

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: light 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 | > 240 °C | | ② 1013 hPa |
| Flash point | > 180 °C | | ① EN ISO 2592 |
| Evaporation rate | No data available | | |
| Auto-ignition temperature | > 240 °C | | |
| Upper/lower flammability or explosive limits | 0.6 - 6.5 Vol-% | | |
| Vapour pressure | No data available | | |
| Vapour density | No data available | | |
| Density | 0.846 g/cm ³ | 15 °C | ① DIN EN ISO 12185 |
| Bulk density | not applicable | | |
| Water solubility | practically insoluble | 20 °C | |
| Dynamic viscosity | No data available | | |
| Kinematic viscosity | ≈ 13 mm ² /s | 40 °C | ① 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 known hazardous reactions.

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10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

| |
|--|
| C18-C50 branched, cyclic and linear hydrocarbons - Distillates CAS No.: 848301-69-9 EC No.: 482-220-0 |
| LD₅₀ oral: >5,000 mg/kg (Rat) |
| LD₅₀ dermal: >5,000 mg/kg (Rabbit) |
| LC₅₀ Acute inhalation toxicity (vapour): >5 mg/L 4 h (Rat) |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 |
| LD₅₀ oral: >2,930 mg/kg (Rat) OECD 401 |
| LD₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402 |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 |
| LD₅₀ oral: <2,000 mg/kg (Rat) |
| LD₅₀ dermal: <2,000 mg/kg (Rat) |

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:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Contains products with a skin sensitizing potential in low concentration (<1%).

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:

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.

* 11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

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SECTION 12: Ecological information

* 12.1. Toxicity

| |
|--|
| C18-C50 branched, cyclic and linear hydrocarbons - Distillates CAS No.: 848301-69-9 EC No.: 482-220-0 |
| LC ₅₀ : >100 mg/L (fish) |
| EC ₅₀ : >100 mg/L (crustaceans) |
| EC ₅₀ : >100 mg/L (Algae/water plant) |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 |
| LC ₅₀ : 0.199 mg/L 4 d (fish, <i>Oryzias latipes</i> (Ricefish)) OECD 203 |
| EC ₅₀ : 0.48 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202 |
| NOEC: 0.069 mg/L 21 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 211 |
| ErC ₅₀ : 0.758 mg/L 4 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) OECD 201 |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 |
| LC ₅₀ : <4.5 mg/L 4 d (fish) |
| EC ₅₀ : <24 mg/L 3 d (Algae/water plant) |
| EC ₅₀ : <23 mg/L 2 d (crustaceans) |
| NOEC: <0.4 mg/L 21 d (crustaceans, <i>Daphnia</i>) |

Aquatic toxicity:

Harmful to aquatic life.

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

| |
|---|
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 |
| Biodegradation: — |
| Remark: Not readily biodegradable (according to OECD criteria) |

Biodegradation:

Readily biodegradable (according to OECD criteria). Data apply to the main component.

12.3. Bioaccumulative potential

| |
|---|
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 |
| Log K _{ow} : 5.03 |
| Bioconcentration factor (BCF): 465 Species: fish |

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

* 12.5. Results of PBT and vPvB assessment

| |
|--|
| C18-C50 branched, cyclic and linear hydrocarbons - Distillates CAS No.: 848301-69-9 EC No.: 482-220-0 |
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| 2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0 EC No.: 204-881-4 |
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts CAS No.: 68442-22-8 EC No.: 270-478-5 |
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| 1-[N,N-Bis-(2-ethylhexyl)aminomethyl]-tolutriazol EC No.: 939-700-4 |
| 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.

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

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code 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:

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) |
|--|--|--|--|
| 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.

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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

Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3.

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 [Industrial Emissions Directive]: 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!

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 0

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).

Other regulations, restrictions and prohibition regulations

No flammable liquid according to BetrSichV.

* 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

| | |
|-------|--|
| 1.1. | Product identifier |
| 2.1. | Classification of the substance or mixture |
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 4.1. | Description of first aid measures |
| 4.2. | Most important symptoms and effects, both acute and delayed |
| 5.1. | Extinguishing media |
| 5.2. | Special hazards arising from the substance or mixture |
| 7.2. | Conditions for safe storage, including any incompatibilities |
| 8.1. | Control parameters |
| 8.2. | Exposure controls |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 11.2. | Information on other hazards |
| 12.1. | Toxicity |

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| | |
|-------|--|
| 12.5. | Results of PBT and vPvB assessment |
| 12.6. | Endocrine disrupting properties |
| 14.8. | Additional information |
| 15.2. | Chemical Safety Assessment |
| 15.3. | Additional information |
| 16.3. | Key literature references and sources for data |
| 16.4. | Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] |

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

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

* 16.3. Key literature references and sources for data

No data available

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

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|--|--|--------------------------|
| Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>) | H319: Causes serious eye irritation. | |
| Aspiration hazard (<i>Asp. Tox. 1</i>) | H304: May be fatal if swallowed and enters airways. | |
| Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>) | H412: Harmful to aquatic life with long lasting effects. | |

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. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

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.

* Data changed compared with the previous version.