

SAFETY DATA SHEET

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

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Mabanol Radon Gear GL 4 75W-90

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

1.1. Product identifier

Trade name/designation:

Mabanol Radon Gear GL 4 75W-90

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

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 |
|---|--|--------------------------|
| 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 components for labelling:

Amines, C12-14-tert-alkyl; (Z)-octadec-9-enylamine; Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9); Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information

EUH208 Contains methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate. May produce an allergic reaction.

Precautionary Statements Prevention

P273 Avoid release to the environment.

Precautionary Statements Disposal

P501 Dispose of contents/container to Dispose of waste according to applicable legislation..

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.

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2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

* 3.2. Mixtures

Description:

Mineral oil + Additive

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.: 64742-56-9 EC No.: 265-159-2 REACH No.: 01-2119480132-48 | Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9) Asp. Tox. 1 H304 | 65 - < 70 weight-% |
| CAS No.: 68037-01-4 EC No.: 500-183-1 REACH No.: 01-2119486452-34 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated Asp. Tox. 1 H304 | 10 - < 15 weight-% |
| | mineral oil Asp. Tox. 1 H304 Additional information: The mineral oil contained can be described by one or more of the following numbers: 64742-54-7, 64742-65-0, 64742-56-9, 265-157-1, 265-169-7, 265-159-2, 01-2119484627-25, 01-2119471299-27, 01-2119480132-48. | 5 - < 10 weight-% |
| CAS No.: 80-62-6 EC No.: 201-297-1 REACH No.: 01-2119452498-28 | methyl methacrylate Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1 Danger H225-H315-H317-H335 | < 1 weight-% |
| CAS No.: 68955-53-3 EC No.: 273-279-1 REACH No.: 01-2119456798-18 | Amines, C12-14-tert-alkyl Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1B, Skin Sens. 1A H302-H311-H314-H317-H330-H400-H410 | < 0.1 weight-% |
| CAS No.: 112-90-3 EC No.: 204-015-5 | (Z)-octadec-9-enylamine Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Asp. Tox. 1, STOT RE 2, STOT SE 3, Skin Corr. 1B Danger H302-H304-H314-H335-H373-H410 M-factor (acute): 10 M-factor (chronic): 10 | < 0.1 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.

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In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

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

After ingestion:

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunk 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 may be liberated: Carbon monoxide. Carbon dioxide (CO₂). Sulphur dioxide (SO₂). Nitrogen oxides (NO_x).

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. Avoid: aerosol or mist formation. 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.

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6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Avoid contact with skin, eyes and clothes. Avoid: Generation/formation of mist. generation/formation of aerosols. 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: 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 |
|--------------------------------------|---|--|
| IOELV (EU) | methyl methacrylate CAS No.: 80-62-6 | ① 50 ppm ② 100 ppm |
| TRGS 900 (DE) | methyl methacrylate CAS No.: 80-62-6 | ① 50 ppm (210 mg/m ³) ② 100 ppm (420 mg/m ³) |

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type ② Exposure route |
|--|------------------------|--|
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 12.5 mg/m ³ | ① DNEL worker ② inhalative, long-term, systemic |
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 12.1 mg/m ³ | ① DNEL worker ② inhalative, long-term, local |

| Substance name | PNEC Value | ① PNEC type |
|--|-------------|-------------------------------|
| Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9) CAS No.: 64742-56-9 | 9.33 mg/kg | ① PNEC secondary poisoning |
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 0.001 mg/l | ① PNEC aquatic, freshwater |
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 0 mg/l | ① PNEC aquatic, marine water |
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 0.635 mg/l | ① PNEC sewage treatment plant |
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 2.14 mg/kg | ① PNEC sediment, freshwater |
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 0.214 mg/kg | ① PNEC sediment, marine water |
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 0.428 mg/kg | ① PNEC soil |
| Amines, C12-14-tert-alkyl CAS No.: 68955-53-3 | 4.71 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). Neoprene. 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.

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8.3. Additional information

Air limit values:

Possibility of exposure to Aerosol (Mineral oil)

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: clear

Odour: not determined

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 | 210 °C | | DIN ISO 2592 | |
| Evaporation rate | <i>not determined</i> | | | |
| Auto-ignition temperature | <i>not determined</i> | | | |
| Upper/lower flammability or explosive limits | <i>not determined</i> | | | |
| Vapour pressure | <i>not determined</i> | | | |
| Vapour density | <i>not determined</i> | | | |
| Density | 0.877 g/cm ³ | 15 °C | DIN 51757 | |
| Bulk density | <i>not determined</i> | | | |
| Water solubility | <i>not determined</i> | | | |
| Partition coefficient: n-octanol/ water | <i>not determined</i> | | | |
| Dynamic viscosity | <i>not determined</i> | | | |
| Kinematic viscosity | 75.8 mm ² /s | 40 °C | DIN EN ISO 3104 | |
| Pour point | -48 °C | | ASTM D 5985 | |

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.

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.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

| CAS No. | Substance name | Toxicological information |
|------------|---|--|
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9) | LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >5,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): >5.53 mg/l 4 h (Rat) |
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rat) LC₅₀ Acute inhalation toxicity (vapour): >5.2 mg/l 4 h (Rat) |
| 68955-53-3 | Amines, C12-14-tert-alkyl | LD₅₀ oral: 552 mg/kg (Rat) OECD 401 LD₅₀ dermal: 251 mg/kg (Rat) OECD 402 LC₅₀ Acute inhalation toxicity (vapour): 1.19 mg/l 4 h (Rat) OECD 403 LC₅₀ Acute inhalation toxicity (gas): 0.05 ppmV (Rat) |
| 112-90-3 | (Z)-octadec-9-enylamine | LD₅₀ oral: 1,689 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:

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

Respiratory or skin sensitisation:

May cause sensitization by inhalation and skin contact.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

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SECTION 12: Ecological information

12.1. Toxicity

| CAS No. | Substance name | Toxicological information |
|------------|---|---|
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9) | LC₅₀ : >100 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) ErC₅₀ : >100 mg/l 3 d (Algae/water plant, Pseudo kirchneriella subcapitata) EC₅₀ : >10,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) NOEC : 10 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) |
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | LC₅₀ : >750 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) EC₅₀ : 190 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) |
| 68955-53-3 | Amines, C12-14-tert-alkyl | ErC₅₀ : 0.44 mg/l 3 d (Algae/water plant, Pseudo kirchneriella subcapitata) OECD 201 |
| 112-90-3 | (Z)-octadec-9-enylamine | LC₅₀ : 0.11 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) |

Additional ecotoxicological information:

If this product contains phenol, dodecyl, branched (EC No. 310-154-3), this product is not to be classified as dangerous for the environment. Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment on the basis of test data, expert judgement or analogy assessments.

12.2. Persistence and degradability

| CAS No. | Substance name | Biodegradation | Remark |
|------------|---|----------------|--|
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9) | — | Not readily biodegradable (according to OECD criteria) |
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | — | Not readily biodegradable (according to OECD criteria) |
| 68955-53-3 | Amines, C12-14-tert-alkyl | — | Not readily biodegradable (according to OECD criteria) |
| 112-90-3 | (Z)-octadec-9-enylamine | — | 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

| CAS No. | Substance name | Log K _{OW} | Bioconcentration factor (BCF) |
|------------|---|---------------------|-------------------------------|
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | 6.5 | |
| 80-62-6 | methyl methacrylate | | 1.32 |
| 68955-53-3 | Amines, C12-14-tert-alkyl | 2.9 | |
| 112-90-3 | (Z)-octadec-9-enylamine | 3.11 | |

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

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* 12.5. Results of PBT and vPvB assessment

| CAS No. | Substance name | Results of PBT and vPvB assessment |
|------------|---|--|
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9) | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 68037-01-4 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 80-62-6 | methyl methacrylate | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 68955-53-3 | Amines, C12-14-tert-alkyl | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 112-90-3 | (Z)-octadec-9-enylamine | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| | mineral oil | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |

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

12.6. 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:

Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

| | |
|---|--------------|
| 14.1. UN-No. | not relevant |
| 14.2. UN proper shipping name | not relevant |
| 14.3. Transport hazard class(es) | not relevant |
| 14.4. Packing group | not relevant |
| 14.5. Environmental hazards | not relevant |
| 14.6. Special precautions for user | not relevant |

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

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)

Klasse 1:

5.2.5: organic substances, to be indicated as total carbon at $m \geq 0.50$ kg/h: Konz. 50 mg/m^3

Anteil 1:

85

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Remark:

Self-classification (mixture; calculation rule).

15.2. Chemical Safety Assessment

not applicable.

SECTION 16: Other information

16.1. Indication of changes

| | |
|-------|--|
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 5.2. | Special hazards arising from the substance or mixture |
| 8.1. | Control parameters |
| 8.2. | Exposure controls |
| 12.3. | Bioaccumulative potential |
| 12.5. | Results of PBT and vPvB assessment |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |

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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 |
|--|--|--------------------------|
| Hazardous to the aquatic environment (Aquatic Chronic 3) | H412: Harmful to aquatic life with long lasting effects. | |

SAFETY DATA SHEET

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

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16.5. Relevant R-, H- and EUH-phrases (Number and full text)

| Hazard statements | |
|-------------------|--|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H330 | Fatal if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. (gastrointestinal tract, liver, central nervous system) |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

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