Non-classified PBT substance.

MÜNZING CHEMIE GmbH
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E-Mail: info@munzing.com
Tel.: +49 7131 987-100

Further information obtainable from:
Product Safety Department
E-mail (MSDS): msds@munzing.com

Emergency telephone number: For Chemical Emergencies: CHEMTREC: +1 703 741 5970

Safety data sheet according to 1907/2006/EC, Article 31

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

- Trade name: EDAPLAN® LA 414
- Application of the substance / the mixture: Leveling agents
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: MÜNZING CHEMIE GmbH
  - Münzingstrasse 2
  - 74232 Abstatt, Germany
  - E-Mail: info@munzing.com
  - Tel.: +49 7131 987-100

Further information obtainable from:
- Product Safety Department
- E-mail (MSDS): msds@munzing.com
- EINECS: 208-762-8

SECTION 2: Hazards identification

- Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008
    - The product is not classified, according to the CLP regulation.

- Label elements
  - Labelling according to Regulation (EC) No 1272/2008
    - Hazard pictograms: Void
    - Signal word: Void
    - Hazard statements: Void

- Additional information:
  - Safety data sheet available on request.

- Other hazards

- Results of PBT and vPvB assessment
  - PBT:
    - CAS: 540-97-6 Dodecamethylcyclohexasiloxane
    - CAS: 541-02-6 Decamethylcyclopentasiloxane
  - vPvB:
    - CAS: 540-97-6 Dodecamethylcyclohexasiloxane
    - CAS: 541-02-6 Decamethylcyclopentasiloxane

SECTION 3: Composition/information on ingredients

- Chemical characterisation: Mixtures
  - Description: Polyalkylene oxide functionalized polysiloxane

- Dangerous components:
  - CAS: 9041-33-2 Poly(oxyethylene)(oxypropylene) glycol monoallyl ether
  - Skin Irrit. 2, H315; Eye Irrit. 2, H319
  - 3-<5%
  - CAS: 540-97-6 Dodecamethylcyclohexasiloxane
  - Non-classified vPvB substance.
  - <0.3%
  - CAS: 541-02-6 Decamethylcyclopentasiloxane
  - Non-classified PBT substance.

(Contd. on page 2)
Trade name: EDAPLAN® LA 414

CAS: 541-02-6
EINECS: 208-764-9
Reg.nr.: 01-2119511367-43

Decamethylcyclopentasiloxane
Non-classified vPvB substance.
Non-classified PBT substance.

<0.3%

SVHC
CAS: 540-97-6 Dodecamethylcyclohexasiloxane
CAS: 541-02-6 Decamethylcyclopentasiloxane

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters
5.4 Protective equipment: Mouth respiratory protective device.
5.5 Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use respiratory protective device against the effects of fumes/dust/aerosol.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly.
7.2 Information about fire - and explosion protection: Protect from heat.

(Contd. of page 1)
Trade name: EDAPLAN® LA 414

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Store away from oxidising agents.
Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.
8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.
Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Nitrile rubber, NBR
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Goggles recommended during refilling
Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:
Form: Fluid
Colour: Yellow-brown
Odour: Characteristic
Odour threshold: Not determined.

pH-value (20 g/l) at 20 °C: ≈8.5 (DIN ISO 976)
Change in condition
Melting point/freezing point: Undetermined.
Trade name: EDAPLAN® LA 414

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 17.12.2018  Version number 2  Revision: 17.10.2018

<table>
<thead>
<tr>
<th>Initial boiling point and boiling range:</th>
<th>&gt;100 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Flash point:</td>
<td>&gt; 60 °C (DIN EN ISO 2719)</td>
</tr>
<tr>
<td>· Flammability (solid, gas):</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>· Decomposition temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Auto-ignition temperature:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>· Explosive properties:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>· Explosion limits:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper:</td>
<td>None</td>
</tr>
<tr>
<td>· Oxidising properties:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Vapour pressure:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Density at 20 °C:</td>
<td>≈0.99 g/cm³ (DIN EN ISO 2811-1)</td>
</tr>
<tr>
<td>· Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Solubility in / Miscibility with water:</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>· Partition coefficient: n-octanol/water:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Viscosity:</td>
<td></td>
</tr>
<tr>
<td>Dynamic at 20 °C:</td>
<td>≈600 mPas (DIN EN ISO 3219)</td>
</tr>
<tr>
<td>· 9.2 Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity: No further relevant information available.
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- 11.2 Acute toxicity: Based on available data, the classification criteria are not met.
- 11.3 Primary irritant effect:
- 11.4 Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- 11.5 Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- 11.6 Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- 11.7 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 11.8 Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- 11.9 Carcinogenicity: Based on available data, the classification criteria are not met.
- 11.10 Reproductive toxicity: Based on available data, the classification criteria are not met.
- 11.11 STOT-single exposure: Based on available data, the classification criteria are not met.
- 11.12 STOT-repeated exposure: Based on available data, the classification criteria are not met.
SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
  - 12.2 Persistence and degradability No further relevant information available.
  - 12.3 Bioaccumulative potential No further relevant information available.
  - 12.4 Mobility in soil No further relevant information available.

- Ecotoxicological effects:
  - Behaviour in sewage processing plants: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.

- Additional ecological information:
  - General notes:
    Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment -

  - PBT:
    - CAS: 540-97-6 Dodecamethylcyclohexasiloxane
    - CAS: 541-02-6 Decamethylcyclopentasiloxane

  - vPvB:
    - CAS: 540-97-6 Dodecamethylcyclohexasiloxane
    - CAS: 541-02-6 Decamethylcyclopentasiloxane

- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.

  - Uncleaned packaging:
    - Recommendation: Disposal must be made according to official regulations.
    - Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR/RID/ADN, ADN, IMDG, IATA Void

- 14.2 UN proper shipping name
  - ADR/RID/ADN, ADN, IMDG, IATA Void

- 14.3 Transport hazard class(es)
  - Class Void
Trade name: EDAPLAN® LA 414

(Contd. of page 5)

- 14.4 Packing group
  - ADR/RID/ADN, IMDG, IATA
    Void
- 14.5 Environmental hazards:
  - Marine pollutant:
    No
- 14.6 Special precautions for user
  Not applicable.
- 14.7 Transport in bulk according to Annex II of
  Marpol and the IBC Code
  Not applicable.
- Transport/Additional information:
  Not a dangerous good to the above specifications.
- UN "Model Regulation":
  Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - National regulations:
    - Information about limitation of use:
      Employment restrictions concerning juveniles must be observed.
      Employment restrictions concerning pregnant and lactating women must be observed.
  - Water hazard class: Water hazard class 1 (German AwSV, Self-assessment): slightly hazardous for water.
  - 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.

- Department issuing SDS:
  Product Safety Department
  E-Mail: msds@munzing.com

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  PBT: Persistent, Bioaccumulative and Toxic
  SVHC: Substances of Very High Concern
  vPvB: very Persistent and very Bioaccumulative
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2