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

1.1 Product identifier

- Trade name: EDAPLAN® LA 411
- UFI:

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

No further relevant information available.

Application of the substance / the mixture: Paint additive

1.3 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

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified as hazardous, according to the CLP regulation.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008: Void
- Signal word: Void
- Hazard statements: Void
- Additional information:
  Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

- CAS: 541-02-6 Decamethylcyclopentasiloxane
- CAS: 556-67-2 Octamethylcyclotetrasiloxane
- CAS: 540-97-6 Dodecamethylcyclohexasiloxane

vPvB:

- CAS: 541-02-6 Decamethylcyclopentasiloxane
- CAS: 556-67-2 Octamethylcyclotetrasiloxane
- CAS: 540-97-6 Dodecamethylcyclohexasiloxane

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: silicone compound

Dangerous components:

- CAS: 541-02-6 Decamethylcyclopentasiloxane ≤51%
- EINECS: 208-764-9 Non-classified vPvB substance.
- Reg.nr.: 01-2119511367-43 Non-classified PBT substance.
**Safety data sheet**

*according to 1907/2006/EC, Article 31*

**Trade name:** EDAPLAN® LA 411

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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  
  **General information:** Take affected persons out into the fresh air.
  
  **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  
  **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
  
  **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  
  **After swallowing:** If symptoms persist consult doctor.

- **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.

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**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
  
  Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  
  For safety reasons unsuitable extinguishing agents: Water with full jet

- **5.2 Special hazards arising from the substance or mixture**
  
  In case of fire, the following can be released: Carbon monoxide (CO)

- **5.3 Advice for firefighters**
  
  **Protective equipment:** Do not inhale explosion gases or combustion gases.

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
  
  Ensure adequate ventilation
  
  Wear protective clothing.

- **6.2 Environmental precautions:**
  
  Do not allow to penetrate the ground/soil.
  
  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).

(Contd. on page 3)
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
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection:
Protect from heat.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.

Information about storage in one common storage facility:
Store away from oxidising agents.

Further information about storage conditions:
Protect from humidity and water.
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:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.

Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.

Protection of hands:
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.5 mm
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
Safety data sheet
according to 1907/2006/EC, Article 31

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(resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).
The determined penetration times according to EN 374 part III are not performed under practical conditions.
Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- Eye protection: Safety glasses
- Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information
  - Appearance: Fluid
  - Colour: Amber coloured
  - Odour: Characteristic
  - Odour threshold: Not determined.

- pH-value: Not determined.

- Change in condition
  - Melting point/freezing point: Undetermined.
  - Initial boiling point and boiling range: > 150 °C

- Flash point: > 100 °C (DIN EN ISO 2719)

- Flammability (solid, gas): Not applicable.

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.

- Oxidising properties: None.

- Vapour pressure: Not determined.

- Density at 20 °C: ≈ 1.0 g/cm³ (DIN EN ISO 2811-1)
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.

- Solubility in / Miscibility with water: Insoluble.

- Partition coefficient: n-octanol/water: Not determined.

- Viscosity:
  - Dynamic at 20 °C: ≈ 270 mPas (DIN EN ISO 3219)

9.2 Other information
No further relevant information available.
SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
  - Can form explosive vapour-air mixture if stored in large receptacles at temperatures > 35°C.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- 11.2 Primary irritant effect:
  - 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.
- 11.3 Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- 11.4 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  - 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.

SECTION 12: Ecological information

- 12.1 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 2 (German Regulation) (Self-assessment): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
- 12.5 PBT and vPvB assessment -

  - PBT:
    - CAS: 541-02-6 Decamethylcyclopentasiloxane
    - CAS: 556-67-2 Octamethylcyclotetrasiloxane
    - CAS: 540-97-6 Dodecamethylcyclohexasiloxane
  - vPvB:
    - CAS: 541-02-6 Decamethylcyclopentasiloxane
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.

European waste catalogue
07 02 17: Waste containing silicones other than those mentioned in 07 02 16

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)
ADR/RID/ADN, ADN, IMDG, IATA Class Void

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:
Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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
- H226 Flammable liquid and vapour.
- H361f Suspected of damaging fertility.
- H413 May cause long lasting harmful effects to aquatic life.

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
- Flam. Liq. 3: Flammable liquids – Category 3
- Repr. 2: Reproductive toxicity – Category 2
- Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

* Data compared to the previous version altered.