`SEC 1: Identification of the substance/mixture and of the company/undertaking`  

- **1.1 Product identifier**  
  Trade name: EDAPLAN® 480

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
  No further relevant information available.

- **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

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

`SEC 2: Hazards identification`  

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

- **2.2 Label elements**  
  Label according to Regulation (EC) No 1272/2008 Void

- **2.3 Other hazards**  
  PBT: None.

- **2.4 Safety Data Sheet to be Used under Specific Conditions**

- **2.5 Conditions for safe keeping, use and Disposal**

- **2.6 Accidental Release Measures**

- **2.7 Disposal Considerations**

- **2.8 Transport information**

- **2.9Ecological information**

- **2.10Exposure Controls/Personal Protection**

- **2.11 Other Information**

`SEC 3: Composition/information on ingredients`  

- **3.2 Chemical characterisation: Mixtures**  
  Description: Aqueous acrylic polymer - mixture

- **3.3 Dangerous components:**  
  CAS: 124-68-5  
  EINECS: 204-709-8  
  Reg.nr.: 01-2119475788-16  
  2-amino-2-methylpropanol  
  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412  
  5-<10%

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

`SEC 4: First aid measures`  

- **4.1 Description of first aid measures**  
  General information: No special measures required.

- **4.2 After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **4.3 After skin contact:** Generally the product does not irritate the skin.

- **4.4 After eye contact:** Rinse opened eye for several minutes under running water.
· 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.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
    Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
· 5.2 Special hazards arising from the substance or mixture No further relevant information available.
· 5.3 Advice for firefighters
    Protective equipment: Do not inhale explosion gases or combustion gases.
    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
    Ensure adequate ventilation
    Wear protective clothing.
· 6.2 Environmental precautions:
    Do not allow to penetrate the ground/soil.
    Dilute with plenty of water.
    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 measures required.
· Information about fire - and explosion protection: No special measures required.
· 7.2 Conditions for safe storage, including any incompatibilities
    Storage:
    Requirements to be met by storerooms and receptacles: No special requirements.
    Information about storage in one common storage facility: Not required.
· Further information about storage conditions: Protect from frost.
· 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.
Trade name: EDAPLAN® 480

- 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.
  - 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.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - Material of gloves
    Butyl rubber, BR
    Neoprene gloves
    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 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.
  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
    - Form: Fluid
    - Appearance:
      - Colour: Yellow
    - Odour:
      - Odour threshold: Not determined.
  - pH-value at 20 °C:
    - 9 (DIN ISO 976)
  - Change in condition
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: >100 °C
  - Flash point:
    - >100 °C (DIN EN ISO 2719)
  - Flammability (solid, gas):
    - Not applicable.
  - Ignition temperature:
    - Not determined.
  - Decomposition temperature:
    - Not determined.
  - Auto-ignition temperature:
    - Product is not selfigniting.
SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **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**
- Acute toxicity Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 124-68-5 2- amino-2-methylpropanol</td>
</tr>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
</tbody>
</table>

- **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.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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.

(Contd. on page 5)
Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 17.12.2018  
Version number 1  
Revision: 08.02.2016

Trade name: EDAPLAN® 480

(Contd. of page 4)

· 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.

SECTION 12: Ecological information

· 12.1 Toxicity

<table>
<thead>
<tr>
<th>Aquatic toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 124-68-5 2-amino-2-methylpropanol</td>
</tr>
<tr>
<td>EC50 (static) 342.9 mg/l (bacteria) (activated sludge / 3 h)</td>
</tr>
<tr>
<td>LC50 (static) 193 mg/l (daphnia) (Daphnia magna / 48 h)</td>
</tr>
<tr>
<td>190 mg/l (fish) (Lepomis macrochirus / 96 h)</td>
</tr>
</tbody>
</table>

· 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: No further relevant information available.
· 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:

<table>
<thead>
<tr>
<th>General notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water</td>
</tr>
<tr>
<td>Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.</td>
</tr>
</tbody>
</table>

· 12.5 Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
· Recommendation Smaller quantities can be disposed of with household waste.

<table>
<thead>
<tr>
<th>European waste catalogue</th>
</tr>
</thead>
<tbody>
<tr>
<td>07 02 99  wastes not otherwise specified</td>
</tr>
</tbody>
</table>

· 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

(Contd. on page 6)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.12.2018
Revision: 08.02.2016
Version number 1

Trade name: EDAPLAN® 480

(Contd. of page 5)

- 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: 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:

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

- 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)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative

(Contd. on page 7)
Trade name: EDAPLAN® 480

Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3