

## Safety data sheet

## Laminierharz 80:20

Uniprox Safety data sheet in accordance with regulation (EC) 1907/2006, Art. 31, Anh. II

Product: Laminierharz 80:20 (MG112)

Date/ Revised: 15.10.2021

Document-No.: MG112\_Laminierharz\_80\_20\_006\_EN

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## 1. Substance/preparation and company identification

Trade name: Laminierharz 80:20

Application of the substance/ the preparation: Resin for orthopaedic technology

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#### 2. Hazards Identification

## 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

**Physical Hazards** 

Flammable liquids Category 2 H225: Highly flammable liquid and

vapor.

**Health Hazards** 

Skin irritation Category 2 H315: Causes skin irritation.
Skin sensitizer Category 1 H317: May cause an allergic skin

reaction.

Specific target organ toxicity -

single exposure (Respiratory system) Category 3 H335: May cause respiratory

irritation.

2.2. Label elements

Contains: methyl methacrylate

triethyleneglycol dimethacrylate ethylene di(S-thioacetate)

n-butyl acrylate

Signal word Danger

GHS pictogram



hazard statement H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.



H335 - May cause respiratory irritation.

Precautionary Statement (Prevention) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P261 - Avoid breathing dust/fume/gas/mist/vapours/

spray.

P262 - Do not get in eyes, on skin, or on clothing.

P280 - Wear protective gloves / eye protection/ face

protection.

Precautionary Statement (Response) P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

#### 2.3. Other hazards

Polymerization with heat evolution m ay occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions. Take precautionary measures against static discharges.

# Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **Endocrine disrupting properties-Toxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **Endocrine disrupting properties-Ecotoxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 3. Composition/Information on Ingredients

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#### 3.2. Mixtures

# General information:

Solution of an acrylic polymer in plasticizer-containing methacrylic acid esters

| Chemical Name                | CAS-No.          | Concentration | M-Factor  | Notes |
|------------------------------|------------------|---------------|-----------|-------|
|                              | EC-No.           |               |           |       |
|                              | REACH-No.        |               |           |       |
| methyl methacrylate          | 80-62-6          | 50-< 100%     | No data   | #     |
|                              | 201-297-1        |               | available |       |
|                              | 01-2119452498-28 |               |           |       |
| triethyleneglycol            | 109-16 -0        | 1.0 % - < 5 % | No data   |       |
| dimethacrylate               | 203-652-6        |               | available |       |
|                              | 01-2119969287-21 |               |           |       |
| ethylene di (S- thioacetate) | 123-81 -9        | 0.1 % - < 1 % | No data   |       |
| -                            | 204-653-4        |               | available |       |
|                              | 01-2120775150-61 |               |           |       |
| n-butyl acrylate             | 141-32 -2        | 0.1 % - < 1 % | No data   | #     |
|                              | 205-480-7        |               | available |       |
|                              | 01-2119453155-43 |               |           |       |
| N,N-bis-(2-hydroxypropyl)-p- | 38668-48-3       | 0.1 -<1%      | No data   |       |
| toluidine                    | 254-075-1        |               | available |       |
|                              | 01-2119980937-17 |               |           |       |
|                              |                  |               |           |       |



<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Classification

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                             | Notes                |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Methyl methacrylate  triethyleneglycol | Classification: Flam. Liq.: 2: H225; Skin Irrit.: 2: H315; Skin Sens.: 1B: H317; STOT SE: 3: H335; Supplemental label information: None known. Specific concentration limit: Specific target organ toxicity single exposure Category 3, >= 10 %; Acute toxicity, oral: LD 50: > 5,000 mg/kg Acute toxicity, inhalation: LC 50: 29.8 mg/l Acute toxicity, dermal: LD 50: > 5,000 mg/kg Classification: Skin Sens.: 1B: H317; | Note D  No data      |
| dimethacrylate                         | Supplemental label information: None known.  Specific concentration limit: None known.  Acute toxicity, oral: LD 50: > 5,000 mg/kg Acute toxicity, inhalation: None known. Acute toxicity, dermal: LD 50: > 2,000 mg/kg                                                                                                                                                                                                     | available            |
| ethylene di(S-thioacetate)             | Classification: Acute Tox.: 4: H302; Acute Tox.: 4: H332; Acute Tox.: 4: H332; Eye Irrit.: 2: H319; Skin Sens.: 1A: H317; STOT SE: 3: H335; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 303 mg/kg Acute toxicity, inhalation: LC 50: 1.5 mg/l Acute toxicity, dermal: LD 50: > 2,000 mg/kg                                                           | No data<br>available |
| n-butyl acrylate                       | Classification: Flam. Liq.: 3: H226; Acute Tox.: 4: H332; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Sens.: 1B: H317; STOT SE: 3: H335; Aquatic Chronic: 3: H412; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 3,150 mg/kg Acute toxicity, inhalation: LC 50: 10.3 mg/l Acute toxicity, dermal: LD 50: > 2,000 mg/kg                             | Note D               |
| N,N-bis-(2-hydroxypropyl)-p-toluidine  | Acute Tox.: 2: H300; Eye Irrit.: 2: H319; Aquatic Chronic: 3: H412; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 25 mg/kg Acute toxicity, inhalation: None known. Acute toxicity, dermal: LD 50: > 2,000 mg/kg                                                                                                                                        | No data<br>available |

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

## 4. First-aid measures

General: Medical treatment is necessary if symptoms occur

which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all

contaminated clothing immediately.

4.1. Description of first aid measures

General: Medical treatment is necessary if symptoms occur

which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all

contaminated clothing immediately.

Inhalation Move subject to fresh air and keep him calm. See a

physician.

Skin contact Wash off immediately with soap and water. If skin

irritation occurs consult a physician.

<sup>#</sup> This substance has workplace exposure limit(s).

<sup>##</sup> This substance is listed as SVHC



Eye contact Flush eyes thoroughly with a large amount of water and

consult a physician.

Ingestion Do not induce vomiting. Consult a physician

immediately.

4.2. Most important symptoms and

effects, both acute and delayed Skin sensitizer, Skin irritation, Excessive or prolonged

exposure can cause the following: Headache, confusion

4.3. Indication of any immediate medical attention and special treatment needed

**Hazards:** No data available

**Treatment:** No

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media foam, dry chemical, carbon dioxide Unsuitable extinguishing media high volume water jet

5.2. Special hazards arising from

the substance or mixture

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

**5.3.** Advice for firefighters

Special firefighting procedures: Keep away from sources of ignition - No smoking.

> Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. When heated above the flash point and/or during spraying (atomizing), ignitible mixtures may form in air. Use

explosion-proof equipment.

Special protective equipment

for fire-fighters: Wear self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Assure sufficient ventilation. Keep away sources of ignition. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

**6.1.1 For non-emergency personnel:** No data available. **6.1.2 For emergency responders:** No data available.

**6.2.** Environmental precautions Prevent product from getting into drains/surface

water/groundwater.

6.3. Methods and material for

containment and cleaning up Larger quantities: Remove mechanically (by pumping).

> Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with

regulations.

6.4. Reference to other sections For personal protection see section 8.

For disposal considerations see section 13.

7. Handling and storage

> 7.1. Precautions for safe handling Do not breathe vapors. Avoid contact with skin and

> > eyes. Keep away from sources of ignition - No smoking. Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. When heated above the flash point and/or during



spraying (atomizing), ignitible mixtures may form in air. Use explosion-proof equipment. Provide good room ventilation even at ground level (vapours are heavier than air). Keep container tightly closed.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep away from direct sunlight. Keep only in the original container at a temperature not exceeding 35 °C. Protect from the action of light. Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation. With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability.

**7.3. Specific end use(s)** No data available.

# 8. Exposure Controls/ Personal Protection

## 8.1. Control parameters

**Occupational Exposure Limits** 

| Chemical name       | Type               | Exposure Limit<br>Values      | Source                                                                                                                    |
|---------------------|--------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Methyl methacrylate | TWA                | 50 ppm 208 mg/m <sup>3</sup>  | UK. EH40 Workplace Exposure Limits (WELs) (12 2011)                                                                       |
|                     | STEL               | 100 ppm 416 mg/m <sup>3</sup> | UK. EH40 Workplace Exposure Limits (WELs) (12 2011)                                                                       |
|                     | TWA                | 50 ppm                        | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (02 2017) |
|                     | STEL               | 100 ppm                       | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (02 2017) |
|                     | STEL<br>15 minutes | 100 ppm 416 mg/m <sup>3</sup> | UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)                                                           |
| n-butyl acrylate    | TWA                | 1 ppm 5 mg/m <sup>3</sup>     | UK. EH40 Workplace Exposure Limits (WELs) (12 2011)                                                                       |
|                     | STEL               | 10 ppm 53 mg/m <sup>3</sup>   | UK. EH40 Workplace Exposure Limits (WELs) (12 2011)                                                                       |
|                     | TWA                | 2 ppm 11 mg/m <sup>3</sup>    | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (12 2009) |
|                     | STEL<br>15 minutes | 5 ppm 26 mg/m <sup>3</sup>    | UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)                                                           |

**Exposure guidelines** 

| Chemical name       | Type                              | Source                                     |
|---------------------|-----------------------------------|--------------------------------------------|
| Methyl methacrylate | Time Weighted Average (TWA):      | EU. Indicative Occupational Exposure Limit |
|                     | Indicative                        | Values in Directives 91/322/EEC,           |
|                     |                                   | 2000/39/EC, 2006/15/EC, 2009/161/EU,       |
|                     |                                   | 2017/164/EU, as amended                    |
|                     | Short Term Exposure Limit (STEL): | EU. Indicative Occupational Exposure Limit |
|                     | Indicative                        | Values in Directives 91/322/EEC,           |
|                     |                                   | 2000/39/EC, 2006/15/EC, 2009/161/EU,       |
|                     |                                   | 2017/164/EU, as amended                    |
| n-butyl acrylate    | Time Weighted Average (TWA):      | EU. Indicative Occupational Exposure Limit |
|                     | Indicative                        | Values in Directives 91/322/EEC,           |
|                     |                                   | 2000/39/EC, 2006/15/EC, 2009/161/EU,       |
|                     |                                   | 2017/164/EU, as amended                    |
|                     | Short Term Exposure Limit (STEL): | EU. Indicative Occupational Exposure Limit |
|                     | Indicative                        | Values in Directives 91/322/EEC,           |



|  | 2000/39/EC, 2006/15/EC, 2009/161/EU, |
|--|--------------------------------------|
|  | 2017/164/EU, as amended              |

# **Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

## **DNEL-Values**

Remarks: DNEL-Values

| Critical component                  | Туре               | Route of<br>Exposure | Health Warnings                                | Remarks                |
|-------------------------------------|--------------------|----------------------|------------------------------------------------|------------------------|
| Methyl methacrylate                 | Workers            | Inhalation           | Local, long-term; 208 mg/m³                    | Repeated dose toxicity |
|                                     | General population | Inhalation           | Local, long-term; 104 mg/m <sup>3</sup>        | Repeated dose toxicity |
|                                     | Workers            | Dermal               | Local, long-term; 1.5<br>mg/cm <sup>2</sup>    | Skin sensitization     |
|                                     | General population | Dermal               | Local, long-term; 1.5<br>mg/cm <sup>2</sup>    | Skin sensitization     |
|                                     | Workers            | Dermal               | Systemic, long-term;<br>13.67 mg/kg bw/day     | Repeated dose toxicity |
|                                     | General population | Dermal               | Systemic, long-term;<br>8.2 mg/kg bw/day       | Repeated dose toxicity |
|                                     | Workers            | Inhalation           | Systemic, long-term;<br>208 mg/m³              | Repeated dose toxicity |
|                                     | General population | Dermal               | Local, short-term; 1.5 mg/cm <sup>2</sup>      | Skin sensitization     |
|                                     | General population | Inhalation           | Systemic, long-term;<br>74.3 mg/m³             | Repeated dose toxicity |
|                                     | Workers            | Dermal               | Local, short-term; 1.5 mg/cm <sup>2</sup>      | Skin sensitization     |
| Tributyl-O-<br>acetylcitrate        | Workers            | Inhalation           | Systemic, long-term; 7.05 mg/m³                | Repeated dose toxicity |
|                                     | General population | Dermal               | Systemic, long-term;<br>1 mg/kg bw/day         | Repeated dose toxicity |
|                                     | Workers            | Dermal               | Systemic, long-term;<br>2 mg/kg bw/day         | Repeated dose toxicity |
|                                     | General population | Inhalation           | Systemic, long-term;<br>1.74 mg/m <sup>3</sup> | Repeated dose toxicity |
|                                     | General population | Oral                 | Systemic, long-term;<br>0.5 mg/kg bw/day       | Repeated dose toxicity |
|                                     | Workers            | Inhalation           | Systemic, long-term; 7.04 mg/m <sup>3</sup>    | Repeated dose toxicity |
|                                     | General population | Eyes                 | Local effects;                                 | No hazard identified   |
|                                     | Workers            | Eyes                 | Local effects;                                 | No hazard identified   |
|                                     | General population | Oral                 | Systemic, long-term;<br>1 mg/kg bw/day         | Repeated dose toxicity |
| triethyleneglycol<br>dimethacrylate | Workers            | Dermal               | Systemic, long-term;<br>13.9 mg/kg             | Repeated dose toxicity |
| annemaer yrane                      | General population | Inhalation           | Systemic, long-term;<br>14.5 mg/m <sup>3</sup> | Repeated dose toxicity |
|                                     | General population | Oral                 | Systemic, long-term;<br>8.33 mg/kg             | Repeated dose toxicity |
|                                     | General population | Dermal               | Systemic, long-term;<br>8.33 mg/kg             | Repeated dose toxicity |
|                                     | Workers            | Inhalation           | Systemic, long-term;<br>48.5 mg/m <sup>3</sup> | Repeated dose toxicity |
|                                     | General population | Eyes                 | Local effects;                                 | No hazard identified   |
|                                     | Workers            | Eyes                 | Local effects;                                 | No hazard identified   |
| ethylene di(S-                      | Workers            | Dermal               | Systemic, long-term;                           | Repeated dose          |
| thioacetate)                        |                    |                      | 0.14 mg/kg bw/day                              | toxicity               |

Workers

Eyes

Local effects;



Medium hazard (no

|                                     | VV                 | orkers            | Eyes       |            | Local effects;                   | threshold derived).         |
|-------------------------------------|--------------------|-------------------|------------|------------|----------------------------------|-----------------------------|
|                                     | G                  | anaral population | Dermal     |            | Systemic, long-term;             | Repeated dose               |
|                                     | "                  | eneral population | Delinal    |            | 0.05 mg/kg bw/day                | toxicity                    |
|                                     | G                  | eneral population | Oral       |            | Systemic, long-term;             | Repeated dose               |
|                                     | General population |                   | O141       |            | 0.05 mg/kg bw/day                | toxicity                    |
|                                     | G                  | eneral population | Eyes       |            | Local effects;                   | Low hazard (no              |
|                                     |                    | 1 1               |            |            | ,                                | threshold derived).         |
|                                     | W                  | orkers            | Inhalation |            | Systemic, long-term;             | Repeated dose               |
|                                     |                    |                   |            |            | $0.49 \text{ mg/m}^3$            | toxicity                    |
|                                     | G                  | eneral population | Inhalation | -          | Systemic, long-term;             | Repeated dose               |
|                                     |                    |                   |            |            | 0.074 mg/m <sup>3</sup>          | toxicity                    |
| n hutul operate                     | 117                | orkers            | Inhol-4    |            | Local long town 11               | imitation #                 |
| n-butyl acrylate                    | W                  | orkers            | Inhalation |            | Local, long-term; 11             | irritation respiratory      |
|                                     | G                  | eneral population | Eyes       |            | mg/m <sup>3</sup> Local effects; | tract  No hazard identified |
|                                     |                    | orkers            | Eyes       |            | Local effects;                   | Medium hazard (no           |
|                                     | ,,,                | OTREIS            | Lycs       |            | Local criccis,                   | threshold derived).         |
| PNEC-Values                         |                    |                   | 1          |            |                                  | timesinora aerivea).        |
| Remarks: PNEC-V                     | ′ո1ու              | ρ¢                |            |            |                                  |                             |
| Critical component                  | aru                | Enviromental      |            | PNF        | CC-Values                        | Remarks                     |
| Critical component                  |                    | compartment       |            | 1111       | ve values                        | Kemarks                     |
| Methyl methacrylate                 |                    | marine water      |            | 0,94       | mg/l                             |                             |
| <u> </u>                            |                    | freshwater sedime | ent        |            | mg/kg                            |                             |
|                                     |                    | Sewage treatment  | plant      | 10 m       | ng/l                             |                             |
|                                     |                    | Soil              |            | 1,47       | mg/kg                            |                             |
|                                     |                    | freshwater        |            | 0,94       | mg/l                             |                             |
|                                     |                    |                   |            | -          |                                  |                             |
| Tributyl-O-acetylcitra              | ite                | Predator          |            |            | ) mg/kg                          | Oral                        |
|                                     |                    | Soil              |            | 8,29 mg/kg |                                  |                             |
|                                     |                    | Marine water sedi |            | 4,15       | mg/kg                            |                             |
|                                     |                    | Freshwater sedim  |            |            | mg/kg                            |                             |
|                                     |                    | Sewage treatment  | plant      | 100        |                                  |                             |
|                                     |                    | Marine water      |            |            | 2 mg/l                           |                             |
|                                     |                    | freshwater        |            |            | 2 mg/l                           |                             |
|                                     |                    | 3.6               |            | 4.6 µ      |                                  |                             |
|                                     |                    | Marine water      | 1          | 0,46       |                                  |                             |
|                                     |                    | Sewage treatment  | piant      | 2,2 μ      | 1g/1                             |                             |
|                                     |                    | C 1 :             |            | 0.01       | <i>c</i> 0                       |                             |
| triethyleneglycol<br>dimethacrylate |                    | freshwater        |            | 0,01       | 6 mg/l                           |                             |
| unnemacryrate                       |                    | Marine water      |            | 0.00       | 2 mg/l                           |                             |
|                                     |                    | Freshwater sedim  | nent       |            | 55 mg/kg                         |                             |
|                                     |                    | Marine water sed  |            | _          | 8 mg/kg                          |                             |
|                                     |                    | Soil              |            |            | 7 mg/kg                          |                             |
|                                     |                    | Sewage treatmen   | t plant    |            | mg/l                             |                             |
|                                     |                    |                   | •          | , , ,      |                                  |                             |
| ethylene di(S- freshwater           |                    |                   | 4.8 μ      | 19/1       |                                  |                             |
| thioacetate)                        |                    |                   |            |            | ··· Ø' =                         |                             |
| ,                                   |                    |                   |            |            |                                  |                             |
| n-butyl acrylate                    |                    | Freshwater sedime | ent        | 0.034      | 4 mg/kg                          |                             |
| 200,1 001,1000                      |                    | Marine water      |            | 0,03       |                                  | 1                           |
|                                     |                    | Soil Soil         |            | 1 mg       |                                  |                             |
|                                     |                    | Freshwater        |            |            | 3 mg/l                           |                             |
|                                     |                    | Sewage treatment  | plant      | 3,5 n      |                                  |                             |
|                                     |                    | 1 3 5 1 11        | •          | 0.00       | <u> </u>                         | 1                           |

# 8.2. Exposure controls

**Appropriate Engineering Controls:** For monitoring procedures refer for instance to

0,003 mg/kg

Marine water sediment



"Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety

and Health

Individual protection measures, such as personal protective equipment

**Eye/face protection:** tightly fitting goggles

**Hand Protection:** Material: butyl rubber gloves

Break-through time: 60 min Glove thickness: 0.7 mm Guideline: EN 374

Additional Information: Gloves should be replaced regularly, especially after extended contact with the product., For each workplace a suitable glove type has

to be selected.

**Skin and Body Protection:** On handling of larger quantities: face mask, chemical-

resistant boots and apron

**Respiratory Protection:** Breathing apparatus in case of high concentrations

short term: filter appliance, filter A

**Hygiene measures:** Store work clothing separately. Take off all conta-

minated clothing immediately. Follow the usual good

standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

**Environmental Controls:** No data available.

## 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state liquid
Form liquid
Colour colourless
Odour ester-like

Odor Threshold: No data available. Freezing point not available

Boiling Temperature 100.5°C (1,013 hPa) (methyl methacrylate)

Flammability (solid, gas) No data available

Lower explosion limit 2.1 %(V) at 10,5°C (methyl methacrylate)

Upper explosion limit 12.5 %(V) (methyl methacrylate)
Flash point 10°C (methyl methacrylate)
Minimum ignition temperature 430 °C (methyl methacrylate)

Decomposition Temperature No decomposition if used as directed.

pH: not applicable
Kinematic viscosity
No data available
Dynamic viscosity
approx. 500 mPa.s
Flow time:
Not applicable

Solubility(ies)

Water solubility approx. 16 g/l (methyl methacrylate)

Solubility (other) No information available

Partition coefficient (n-octanol/water) No data available

Vapour pressure 38.7 hPa (20 °C) (methyl methacrylate)

Relative vapour density  $> 1 (20 \,^{\circ}\text{C})$ Density  $= 1 (20 \,^{\circ}\text{C})$ 



Relative density No data available Surface treatment: not applicable

9.2. Other information

10. Stability and reactivity

**10.1. Reactivity** No data available.

**10.2. Chemical stability** No decomposition if used as directed.

10.3. Possibility of hazardous

**Reactions** Polymerization with heat evolution may occur in the

presence of radical forming substances (e.g. peroxides),

reducing substances, and/or heavy metal ions.

**10.4. Conditions to avoid** Avoid high temperatures and sources of ignition.

Keep away from direct sunlight. Ultraviolet light. Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents.

10.6. Hazardous decomposition

10.5. Incompatible materials

**products** None when used as directed.

11. Toxicological information

Information on likely routes of exposure

**Inhalation** Relevant route of exposure. Information on effects are

given below.

**Skin Contact** Relevant route of exposure. Information on effects are

given below.

**Eye contact** Relevant route of exposure. Information on effects are

given below.

**Ingestion** If handled correctly, not a relevant route of exposure.

Information on effects are given below.

11.1. Information on toxicological effects

**Acute toxicity** 

Oral

Product Acute toxicity estimate: > 2,000 mg/kg

Components

Methyl methacrylate LD 50 (Rat): > 5,000 mg/kg

Based on available data, the classification criteria are

not met.

triethyleneglycol dimethacrylate LD 50 (Rat): > 5,000 mg/kg ethylene di(S-thioacetate) LD 50 (Rat, male): 303 mg/kg n-butyl acrylate LD 50 (Rat): 3,150 mg/kg

N,N-bis-(2-hydroxypropyl)-p-toluidine LD 50 (Rat, male/female): 25 mg/kg

**Dermal** 

Product Not classified for acute toxicity based on available

data.

Components

Methyl methacrylate LD 50 (Rabbit): > 5,000 mg/kg

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

triethyleneglycol dimethacrylate LD 50 (Mouse): > 2,000 mg/kg

Based on available data, the classification criteria are

not met.

ethylene di(S-thioacetate) LC0 (Rabbit): 2,000 mg/kg

Based on available data, the classification criteria are

not met.



n-butyl acrylate LD 50 (Rabbit): > 2,000 mg/kg N,N-bis-(2-hydroxypropyl)-p-toluidine LD 50 (Rat): > 2,000 mg/kg

Inhalation

Product Not classified for acute toxicity based on available

data.

Components

Methyl methacrylate LC 50 (Rat, 4 h) 29.8 mg/l

Vapour, Dusts, mists and fumes

triethyleneglycol dimethacrylate Vapour, No data available. Dusts, mists and fumes,

No data available.

ethylene di(S-thioacetate) LC 50 (Acute toxicity estimate): 1.5 mg/l

Dusts, mists and fumes LC 50 (Acute toxicity

estimate): 11 mg/l Vapour

n-butyl acrylate LC 50 (Rat): 10.3 mg/l

Vapour Dusts, mists and fumes, No data available.

N,N-bis-(2-hydroxypropyl)-p-toluidine The substance or mixture has no acute inhalation

toxicity, Dusts, mists and fumes The substance or mixture has no acute inhalation toxicity, Vapour

Repeated dose toxicity

Product No data available.

Components

Methyl methacrylate NOAEL (Rat, Inhalation (Vapour)): 25 ppm

NOAEL (Rat, Oral): 2000 ppm

triethyleneglycol dimethacrylate NOAEL (Rat, Oral): 1,000 mg/kg

ethylene di(S-thioacetate) No data available. n-butyl acrylate No data available. N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

**Skin Corrosion/Irritation** 

Product Contact with skin may cause irritations.

Components

Methyl methacrylate (Rabbit): Irritating.

triethyleneglycol dimethacrylate FDA 1959 Draize, occlusive (Rabbit, 24 h):

Not irritating

ethylene di(S-thioacetate) (Rabbit): Not irritating n-butyl acrylate (Rabbit): Irritating. N,N-bis-(2-hydroxypropyl)-p-toluidine does not require labelling

**Serious Eye Damage/Eye Irritation** 

Product Contact with the eyes may cause irritation.

Components

Methyl methacrylate Not irritating Draize Rabbit: Based on available data,

the classification criteria are not met.

triethyleneglycol dimethacrylate OECD Guideline 405 (Rabbit): Not irritating

ethylene di(S-thioacetate) (Rabbit): Irritating. n-butyl acrylate (Rabbit): Irritating.

N,N-bis-(2-hydroxypropyl)-p-toluidine (Rabbit): Moderately irritating OECD 405

**Respiratory or Skin Sensitization** 

Product No data available.

Components

Methyl methacrylate Local Lymph Node Assay (LLNA), OECD 429

(Mouse): Skin sensitizer

triethyleneglycol dimethacrylate Local Lymph Node Assay (LLNA), OECD 429

(Mouse): Skin sensitizer



ethylene di(S-thioacetate) Maximization Test, OECD 406 (Guinea Pig):

Strong skin sensitizer.

n-butyl acrylate Local Lymph Node Assay (LLNA), OECD 429

(Mouse): Skin sensitizer

N,N-bis-(2-hydroxypropyl)-p-toluidine Not a skin sensitizer.

Carcinogenicity

Product Contains no ingredient listed as a carcinogen (>0.1%).

Components

Methyl methacrylate
triethyleneglycol dimethacrylate
ethylene di(S-thioacetate)
n-butyl acrylate

Not classified
Not classified
Not carcinogenic

**Germ Cell Mutagenicity** 

In vitro

Product No data available.

Components

Methyl methacrylate No data available.

triethyleneglycol dimethacrylate gene mutation test (OECD 476): negative

ethylene di(S-thioacetate) No data available. n-butyl acrylate No data available.

N,N-bis-(2-hydroxypropyl)-p-toluidine (OECD TG 471) negative

In vivo

Product No data available.

Components

Methyl methacrylate No data available. triethyleneglycol dimethacrylate No data available. ethylene di(S-thioacetate) No data available. n-butyl acrylate No data available. N,N-bis-(2-hydroxypropyl)-p-toluidine Ames test: negative N,N-bis-(2-hydroxypropyl)-p-toluidine Not classified

Reproductive toxicity

Product Contains no ingredient listed as toxic to reproduction

(>0.1%).

Components

Methyl methacrylate
triethyleneglycol dimethacrylate
ethylene di(S-thioacetate)
n-butyl acrylate
No data available.

**Specific Target Organ Toxicity** 

- Single Exposure

Product No data available.

Components

Methyl methacrylate Inhalation - vapor: Respiratory system - Category 3

with respiratory tract irritation.

triethyleneglycol dimethacrylate No data available.

ethylene di(S-thioacetate)

Inhalation: Lungs - Category 3 with respiratory tract

irritation.

n-butyl acrylate Inhalation - vapor: Respiratory system - Category 3

with respiratory tract irritation.

N,N-bis-(2-hydroxypropyl)-p-toluidine Not classified.

**Specific Target Organ Toxicity** 



- Repeated Exposure

Product No data available.

Components

Methyl methacrylate Not classified triethyleneglycol dimethacrylate No data available. ethylene di(S-thioacetate) No data available. n-butyl acrylate No data available. N,N-bis-(2-hydroxypropyl)-p-toluidine Not classified

**Aspiration Hazard** 

Product Due to the viscosity, this product does not present an

aspiration hazard.

Components

Methyl methacrylate Not classified triethyleneglycol dimethacrylate ethylene di(S-thioacetate) Not classified Not classified

n-butyl acrylate Not classified as an aspiration hazard.

N,N-bis-(2-hydroxypropyl)-p-toluidine Not classified

11.2 Information on other hazards Endocrine disrupting properties

Product: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

Methyl methacrylate No data available. triethyleneglycol dimethacrylate No data available. ethylene di(S-thioacetate) No data available. n-butyl acrylate No data available. N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

Other adverse effects Avoid contact with the skin and eyes and inhalation of

the product vapours.

12. Ecological information

12.1. Toxicity Acute toxicity

Fish

Product No data available.

Components

Methyl methacrylate LC 50 (Oncorhynchus mykiss, 96 h): > 79 mg/l

(OECD Test Guideline 203)

NOEC (Danio rerio, 32 d): 9.4 mg/l literature

triethyleneglycol dimethacrylate LC 50 (Danio rerio, 96 h): 16.4 mg/l

ethylene di(S-thioacetate) LC 50 (Leuciscus idus (Golden orfe), 48 h): 4.85 mg/l n-butyl acrylate LC 50 (Oncorhynchus mykiss, 96 h): > 5.2 mg/l

(OECD TG 203)

N,N-bis-(2-hydroxypropyl)-p-toluidine LC 50 (Danio rerio, 96 h): 17 mg/l

**Aquatic Invertebrates** 

Product No data available.

Components

Methyl methacrylate EC 50 (Daphnia magna, 48 h): 69 mg/l

NOEC (Daphnia magna, 21 d): 37 mg/l



triethyleneglycol dimethacrylate No data available.

ethylene di(S-thioacetate) EC 50 (Daphnia magna, 48 h): 11 mg/l n-butyl acrylate EC 50 (Daphnia magna, 48 h): 8.2 mg/l N,N-bis-(2-hydroxypropyl)-p-toluidine EC 50 (Daphnia magna, 48 h): 28.8 mg/l

**Toxicity to Aquatic Plants** 

Product No data available.

Components

Methyl methacrylate EC 50 (Selenastrum capricornutum (green algae),

72 h): > 100 mg/l (OECD 201)

triethyleneglycol dimethacrylate EC 50 (Pseudokirchneriella subcapitata (green algae),

72 h): > 100 mg/l (OECD 201)

ethylene di(S-thioacetate) EC 50 (Desmodesmus subspicatus (green algae), 72 h):

> 100 mg/l (OECD 201)

n-butyl acrylate EC 50 (Selenastrum capricornutum (green algae),

96 h): 2.65 mg/l (OECD 201)

N,N-bis-(2-hydroxypropyl)-p-toluidine EC 50 (Desmodesmus subspicatus (green algae), 72 h):

245 mg/l (OECD 201)

Toxicity to microorganisms

Product No data available.

Components

Methyl methacrylate No data available. triethyleneglycol dimethacrylate No data available. ethylene di(S-thioacetate) No data available.

n-butyl acrylate EC0 (Activated sludge, 3 d): > 150 mg/l N,N-bis-(2-hydroxypropyl)-p-toluidine EC10 (30 min): > 1,995 mg/l (OECD 209)

**Chronic Toxicity** 

Fish

Product No data available.

Components

Methyl methacrylate No data available. triethyleneglycol dimethacrylate ethylene di(S-thioacetate) No data available. n-butyl acrylate No data available. N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

**Aquatic Invertebrates** 

Product No data available.

Components

Methyl methacrylate No data available.

triethyleneglycol dimethacrylate NOEC (Daphnia magna, 21 d): 32 mg/l

ethylene di(S-thioacetate) No data available.

n-butyl acrylate NOEC (Daphnia magna (Water flea), 21 d): 0.136 mg/l

N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

**Toxicity to Aquatic Plants** 

Product No data available.

Components

Methyl methacrylate NOEC (Selenastrum capricornutum (green algae),

72 h): > 100 mg/l (OECD 201)

triethyleneglycol dimethacrylate NOEC (Pseudokirchneriella subcapitata, 72 h):

18.6 mg/l (OECD 201)

ethylene di(S-thioacetate) NOEC (Desmodesmus subspicatus (green algae),

72 h): >= 100 mg/l (OECD 201)

n-butyl acrylate No data available.



N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

Toxicity to microorganisms

Product No data available.

Components

Methyl methacrylate No data available triethyleneglycol dimethacrylate No data available ethylene di(S-thioacetate) No data available n-butyl acrylate No data available. N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

12.2. Persistence and degradability

**Biodegradation** 

Product (14 d, OECD 301 C): 94 % Readily biodegradable

Related to substance: methyl methacrylate

Components

Methyl methacrylate (14 d, OECD 301 C): 94 % The product is easily

biodegradable.

triethyleneglycol dimethacrylate (28 d): 85 % The product is easily biodegradable.

ethylene di(S-thioacetate) (28 d, OECD 301 D): 65.9 % The product is easily

biodegradable.

n-butyl acrylate 60 % The product is easily biodegradable.

< 80 % The product is easily biodegradable.

N,N-bis-(2-hydroxypropyl)-p-toluidine (28 d, OECD 301 B): 39 % The product is not

biodegradable.

**BOD/COD Ratio** 

**Product** No data available.

Components

Methyl methacrylate No data available. triethyleneglycol dimethacrylate No data available. ethylene di(S-thioacetate) No data available. n-butyl acrylate No data available. N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

12.3. Bioaccumulative potential

Product no evidence for hazardous properties

Methyl methacrylate No data available.

triethyleneglycol dimethacrylate Accumulation in organisms is not expected due to the

coefficient of distribution of n-octanol in water (log

Pow).

ethylene di(S-thioacetate) Bioconcentration Factor (BCF): 2.82

n-butyl acrylate Accumulation in organisms is not expected due to the

coefficient of distribution of n-octanol in water (log

Pow).

N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

Partition Coefficient n-octanol / water (log Kow)

**Product** No data available.

Components

Methyl methacrylate Log Kow: 1.38

triethyleneglycol dimethacrylate Log Kow: 2.3 20 °C (OECD 117) ethylene di(S-thioacetate) Log Kow: 1.46 20 °C (OECD 117)

n-butyl acrylate Log Kow: 2.36

Log Kow: 2.38 25 °C

N,N-bis-(2-hydroxypropyl)-p-toluidine Log Kow: 2.1 (OECD 107)

12.4. Mobility in soil



**Product** no specific test data available

Components

Methyl methacrylate No data available. triethyleneglycol dimethacrylate ethylene di(S-thioacetate) No data available.

n-butyl acrylate The product evaporates slowly.

N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

12.5. Results of PBT and

ethylene di(S-thioacetate)

vPvB assessment

**Product** This substance/mixture contains no components

considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components

Methyl methacrylate Non-classified vPvB substance

Non-classified PBT substance

triethyleneglycol dimethacrylate Non-classified vPvB substance

Non-classified PBT substance Non-classified vPvB substance

Non-classified PBT substance n-butyl acrylate Non-classified vPvB substance

Non-classified PBT substance

N,N-bis-(2-hydroxypropyl)-p-toluidine Non-classified vPvB substance

Non-classified PBT substance

12.6. Endocrine disrupting properties:

**Product:** The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components

Methyl methacrylate No data available. triethyleneglycol dimethacrylate thylene di(S-thioacetate) No data available. n-butyl acrylate No data available. N,N-bis-(2-hydroxypropyl)-p-toluidine No data available.

12.7 Other adverse effects:

Other hazards

Product: Prevent substance from entering soil, natural bodies of

water and sewer systems.

13. Disposal considerations

13.1. Waste treatment methods

**General information** No data available.

Disposal methods Waste is hazardous. It must be disposed of in

accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

Contaminated Packaging Contaminated packaging should ideally be emptied; it

can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of

professionally.



## Uncontaminated packaging may be taken for recycling.

#### 14. Transport Information

## Transport on land (ADR/RID/GGVSEB)

## **14.1. UN number**

ADR UN 1866 RID UN 1866 IMDG UN 1866 IATA UN 1866

14.2. UN proper shipping name

ADR
RID
RESIN SOLUTION
RESIN SOLUTION
RESIN SOLUTION
RESIN SOLUTION
Resin solution

14.3. Transport hazard class(es)

ADR 3
RID 3
IMDG 3
IATA 3

14.4. Packing group

**ADR** 

Packing group II
Classification Code F1
Hazard Identification Number 33
Labels 3

Remarks Special provision 640D, observe §35 GGVSEB

RID

Packing group II
Classification Code F1
Hazard Identification Number 33
Labels 3

Remarks Special provision 640D

**IMDG** 

Packing group II
Labels 3
EmS Code F-E,S-E

IATA (Cargo aircraft only)

Packing instruction (cargo aircraft) 364
Packing instruction (LQ) Y341
Packing group II
Labels 3

14.5. Environmental hazards

**ADR** 

Environmentally hazardous No

RID

Environmentally hazardous No

**IMDG** 

Marine pollutant No

## 14.6. Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data



Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**14.7.** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

#### 15. Regulatory information

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

**EU Regulations** 

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

EU. REACH Annex XIV, Substances Subject to Authorization: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: none Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: none

| Chemical name       | CAS-No. | Concentration |
|---------------------|---------|---------------|
| Methyl methacrylate | 80-62-6 |               |

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

# EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances. Annex I:

| Classification                    | Lower-tier Requirements | Upper-tier Requirements |
|-----------------------------------|-------------------------|-------------------------|
| P5c. Flammable liquids            | 5,000 t                 | 50,000 t                |
| ATTENTION: Classification into    |                         |                         |
| hazard category P5c is a minimum  |                         |                         |
| classification. Only the operator |                         |                         |
| may estimate if the product is    |                         |                         |
| covered by hazard category P5a or |                         |                         |
| P5c. For P5a and P5b different    |                         |                         |
| qualifying quantities are valid.  |                         |                         |

# EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

| Chemical name       | CAS-No.  | Concentration |
|---------------------|----------|---------------|
| Methyl methacrylate | 80-62-6  |               |
| n-butyl acrylate    | 141-32-2 |               |

**National Regulations** Please note Directive 94/33/EC (Protection of Young

Workers at the Workplace Directive) and amendments. Please note Directive 92/85/EEC (Pregnant Workers

Directive) and amendments.

**15.2 Chemical safety assessment** No Chemical Safety Assessment has been carried out.

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#### **Inventory Status:**

Registration, Evaluation and

Authorisation of Chemicals (REACH): preregistered, registered or exempted US TSCA Inventory: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory

Canada NDSL Inventory: Not on Inventory.

Australia AICS: Not on Inventory.

Japan (ENCS) List: Not on Inventory.

Korea Existing Chemicals Inv. (KECI): Not on Inventory.

Philippines PICCS: On or in compliance with the inventory

China Inv. Existing Chemical

Substances: On or in compliance with the inventory

**International regulations** 

Montreal protocolNot applicableStockholm conventionNot applicableRotterdam conventionNot applicableKyoto protocolNot applicable

## 16. Other Information

#### Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; AGW - Occupational exposure limit; ASTM - American Society for Testing and Materials; AwSV - Ordinance on facilities for handling substances that are hazardous to water; BSB -Biochemical oxygen demand; c.c. - closed cup; CAS - Chemical Abstract Services; CESIO - European Committee of Organic Surfactants and their Intermediates; CSB - Chemical oxygen demand; DMEL -Derived minimum effect level; DNEL - Derived no effect level; EbC50 - median concentration in terms of reduction of growth; EC -Effective concentration; EINECS - European Inventory of Existing Commercial Chemical Substances; EN - European norm; ErC50 - median concentration in terms of reduction of growth rate; GGVSEB - German ordinance for road, rail and inland waterway transportation of dangerous goods; GGVSee - German ordinance for sea transportation of dangerous goods; GLP - Good Laboratory Practice; GMO - Genetic Modified Organism; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; ISO - International Organization For Standardization; LD/LC -lethal dosis/concentration; LOAEL - Lowest observed adverse effect level; LOEL - Lowest observed effect level; M-Factor - multiplying factor; NOAEL - No observed adverse effect level; NOEC - no observed effect concentration; NOEL - no observed effect level; o.c. - open cup; OECD - Organisation for Economic Cooperation and Development; OEL - Occupational Exposure Limit; PBT - Persistent, bioaccumulative, toxic; PNEC - Predicted no effect concentration; REACH - REACH registration; RID -Convention concerning International Carriage by Rail; SVHC - Substances of Very High Concern; TA -Technical Instructions; TRGS - Technical Rules for Hazardous Substances; vPvB - very persistent, very bioaccumulative; WGK - Water Hazard Class

## **Notes:**

| Methyl methacrylate | Note D | Certain substances which are susceptible to spontaneous                 |
|---------------------|--------|-------------------------------------------------------------------------|
|                     |        | polymerisation or decomposition are generally placed on the             |
|                     |        | market in a stabilised form. It is in this form that they are listed in |
|                     |        | Part 3. However, such substances are sometimes placed on the            |
|                     |        | market in a non-stabilised form. In this case, the supplier must        |
|                     |        | state on the label the name of the substance followed by the words      |
|                     |        | 'non-stabilised'.                                                       |
| n-butyl acrylate    |        |                                                                         |

#### Key literature references and

sources for data: No data available.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| 11084144141 (20) 12:2/2000 [0221]              |                          |
|------------------------------------------------|--------------------------|
| Classification according to Regulation (EC) No | Classification procedure |
| 1272/2008 as amended.                          |                          |



| Flammable liquids, Category 2                     | On basis of test data |
|---------------------------------------------------|-----------------------|
| Skin irritation, Category 2                       | Calculation method    |
| Skin sensitizer, Category 1                       | Calculation method    |
| Specific Target Organ Toxicity - Single Exposure, | Calculation method    |
| Category 3                                        |                       |

## Wording of the H-statements in section 2 and 3

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapour.
- H300 Fatal if s wallowed.
- H302 Harmful if swallowed.
- H315 Causes skin irritation. May cause an allergic skin reaction.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.

Other information The product is normally supplied in a stabilized form.

If the permissible storage period and/or storage temperature is exceeded, the product may polymerize

with heat evolution.

Revision Information This version replaces all previous versions.

The information refers explicit to the indicated product. In opinion of the Uniprox GmbH & Co. KG this information is right and reliable at the time of the generation. Uniprox GmbH & Co. KG don't assume an express or silent warranty concerning to its correctness, reliability or completeness. Everybody who received this information is requested by the Uniprox GmbH & Co. KG to decide about suitability and completeness of this information for his special application.