

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2023

Version number 24 (replaces version 23)


Revision: 13.01.2023

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

- **1.1 Product identifier**
- **Trade name** **MC-DUR 1200 - Komponente A**
- **Article number:** 824
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Application of the substance / the mixture** Epoxy coating
- **1.3 Details of the supplier of the safety data sheet**
- **Informing department:** msds@mc-bauchemie.de
- **1.4 Emergency telephone number:** Tel.: +49 / (0)700 24112112 (MCR)
Tel.: +48612864565

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 - Skin Irrit. 2 H315 Causes skin irritation.
 - Eye Irrit. 2 H319 Causes serious eye irritation.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS09
- **Signal word** Warning
- **Hazard-determining components of labelling:** epoxide derivates
2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700
1,6-hexene-diglycidylether
- **Hazard statements** H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves / eye protection / face protection.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 - P337+P313 If eye irritation persists: Get medical advice/attention.
- **Additional information:** Contains epoxy constituents. May produce an allergic reaction.

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Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Resin mixture with colouring agents.
Mixture consisting of the following components.

- **Dangerous components:**

| | | |
|--------------------------------------|--|---------------|
| CAS: 1675-54-3 EINECS: 216-823-5 | epoxide derivates Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 25-50% |
| CAS: 13463-67-7 EINECS: 236-675-5 | titanium dioxide Carc. 2, H351 | ≥0.1-<5% |
| CAS: 9003-36-5 NLP: 500-006-8 | 2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700 Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 | ≥2.5-<5% |
| CAS: 16096-31-4 EINECS: 240-260-4 | 1,6-hexene-diglycidylether Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH205 | ≥2.5-<5% |
| CAS: 100-51-6 EINECS: 202-859-9 | Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | <2.5% |
| CAS: 222417-26-7 | Polyacrylate Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315 | ≥0.025-<0.25% |

- **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**
- **After inhalation** Supply fresh air.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
Seek medical treatment.
- **After swallowing** Rinse out mouth and then drink plenty of water.
Seek medical treatment.
- **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 fighting measures that suit the environment.

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- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.
- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed containers.
Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical 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.

· DNELs

16096-31-4 1,6-hexene-diglycidylether

| | | |
|------------|------|-----------------------------|
| Dermal | DNEL | 2.8 mg/kg bw/day (ArL) |
| Inhalative | DNEL | 4.9 mg/m ³ (ArL) |

100-51-6 Benzyl alcohol

| | | |
|--------|------|-----------------------|
| Oral | DNEL | 4 mg/kg bw/Tag (ArL) |
| | | 20 mg/kg bw/Tag (Ark) |
| Dermal | DNEL | 8 mg/kg bw/day (ArL) |

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| | | |
|------------|------|-----------------------------|
| Inhalative | DNEL | 40 mg/kg bw/day (Ark) |
| | | 22 mg/m ³ (ArL) |
| | | 110 mg/m ³ (Ark) |

· **PNECs****16096-31-4 1,6-hexene-diglycidylether**

| | |
|------|--|
| PNEC | 0.0115 mg/l (Fresh water) |
| | 0.00115 mg/l (Mew) |
| PNEC | 0.223 mg/kg dwt (Bod) |
| | 0.0283 mg/kg dwt (Sediment) |
| | 0.283 mg/kg dwt (Fresh water sediment) |

100-51-6 Benzyl alcohol

| | |
|------|---------------------------------------|
| PNEC | 0.527 mg/l (Marine water sediment) |
| | 0.1 mg/l (Mew) |
| | 1 mg/l (Fresh water sediment) |
| PNEC | 0.456 mg/kg dwt (Bod) |
| | 5.27 mg/kg dwt (Fresh water sediment) |

· **Additional information:** The lists that were valid during the compilation were used as basis.· **8.2 Exposure controls**· **Appropriate engineering controls**

No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

· **Hand protection**

Protective gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.

· **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.

Recommended thickness of the material: ≥ 0.4 mm· **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/face protection**

Safety glasses
Tightly sealed safety glasses.

· **Body protection:**

Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Colour:**

According to product specification

· **Smell:**

Characteristic

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| | |
|---|---|
| · Melting point/freezing point: | Not determined |
| · Boiling point or initial boiling point and boiling range | >200 °C (25068-38-6 Propyl -2,2-diphenyl-4,4'dipropylloxirane polymers and homologues molecular weight < 700) |
| · Flash point: | 151 °C |
| · Ignition temperature: | 184 °C |
| · pH | Not applicable. |
| · Viscosity: | |
| · dynamic at 20 °C: | 16800 mPas |
| · Solubility | |
| · Water: | Not miscible or difficult to mix |
| · Steam pressure at 20 °C: | 0.1 hPa |
| · Density and/or relative density | |
| · Density at 20 °C | 2.04 g/cm ³ |

· 9.2 Other information

| | |
|--|------------------------------|
| · Appearance: | |
| · Form: | Fluid |
| · Important information on protection of health and environment, and on safety. | |
| · Self-inflammability: | Product is not selfigniting. |
| · Explosive properties: | Product is not explosive. |

· Information with regard to physical hazard classes

| | |
|--|------|
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Void |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

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. |

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
 · **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

1675-54-3 epoxide derivatives

| | | |
|--------|------|----------------------|
| Dermal | LD50 | 23000 mg/kg (rabbit) |
|--------|------|----------------------|

13463-67-7 titanium dioxide

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | >10000 mg/kg (rat) |
| Dermal | LD50 | >10000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >6.8 mg/l (rat) |

9003-36-5 2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700

| | | |
|--------|------|----------------------|
| Oral | LD50 | >2000 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rabbit) |

16096-31-4 1,6-hexene-diglycidylether

| | | |
|--------|------|-------------------|
| Oral | LD50 | >8500 mg/kg (rat) |
| Dermal | LD50 | >4900 mg/kg (rat) |

100-51-6 Benzyl alcohol

| | | |
|------------|----------------------|---------------------|
| Oral | LD50 | 1230 mg/kg (rat) |
| | NOAEL 2nd year study | 200 mg/kg (mouse) |
| | | 200 mg/kg (rat) |
| Dermal | LD50 | 2000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >4178 mg/l (rat) |

- **Skin corrosion/irritation** Causes skin irritation.
 · **Serious eye damage/irritation** Causes serious eye irritation.
 · **Respiratory or skin sensitisation** May cause an allergic skin reaction.
 · **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 · **Carcinogenicity** Based on available data, the classification criteria are not met.
 · **Reproductive toxicity** Based on available data, the classification criteria are not met.
 · **STOT-single exposure** Based on available data, the classification criteria are not met.
 · **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 · **Aspiration hazard** Based on available data, the classification criteria are not met.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

1675-54-3 epoxide derivatives

| | |
|----------|------------------------------|
| IC50 | >42.6 mg/l (Bak) |
| LC50/96h | 2 mg/l (Oncorhynchus mykiss) |
| EC50/48h | 1.8 mg/l (Daphnia magna) |

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| | |
|--|---|
| ErC50/72h | 11 mg/l (Selenastrum capricornutum) |
| 9003-36-5 2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700 | |
| LC50/96h | >100 mg/l (Daphnia magna) |
| EC50/96h | >100 mg/l (Leucidus idus) |
| 16096-31-4 1,6-hexene-diglycidylether | |
| LC50/96h | 30 mg/l (Leucidus idus) |
| EC50/48h | 47 mg/l (Daphnia magna) |
| 100-51-6 Benzyl alcohol | |
| IC50/72h | 700 mg/l (algae) |
| LC50/96h | 460 mg/l (Pimephales promelas) 10 mg/l (Lepomis macrochirus) |

- **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.*
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **12.6 Endocrine disrupting properties** *The product does not contain substances with endocrine disrupting properties.*
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** *Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.*

SECTION 13: Disposal considerations

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

- **European waste catalogue**

| | |
|----------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00 | wastes from MFSU and removal of paint and varnish |
| 08 01 11 | waste paint and varnish containing organic solvents or other dangerous substances |

- **Uncleaned packagings:**
- **Recommendation:** *Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.*

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN3082

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| | |
|--|---|
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, IATA · IMDG | <p><i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates, epoxide derivates)</i></p> <p><i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates, epoxide derivates), MARINE POLLUTANT</i></p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR · Class · Label | <p><i>9 (M6) Miscellaneous dangerous substances and articles.</i></p> <p><i>9</i></p> |
| <ul style="list-style-type: none"> · IMDG, IATA · Class · Label | <p><i>9 Miscellaneous dangerous substances and articles.</i></p> <p><i>9</i></p> |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | <p><i>III</i></p> |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA): | <p><i>Yes</i></p> <p><i>Symbol (fish and tree)</i></p> <p><i>Symbol (fish and tree)</i></p> <p><i>Symbol (fish and tree)</i></p> |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Category | <p><i>Warning: Miscellaneous dangerous substances and articles.</i></p> <p><i>90</i></p> <p><i>F-A, S-F</i></p> <p><i>A</i></p> |
| <ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments | <p><i>Not applicable.</i></p> |
| <ul style="list-style-type: none"> · Transport/Additional information: · ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | <p><i>5L</i></p> <p><i>Code: E1</i></p> <p><i>Maximum net quantity per inner packaging: 30 ml</i></p> <p><i>Maximum net quantity per outer packaging: 1000 ml</i></p> <p><i>3</i></p> <p><i>(-)</i></p> <p><i>5L</i></p> <p><i>Code: E1</i></p> <p><i>Maximum net quantity per inner packaging: 30 ml</i></p> <p><i>Maximum net quantity per outer packaging: 1000 ml</i></p> |
| <ul style="list-style-type: none"> · UN "Model Regulation": | <p><i>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATES, EPOXIDE DERIVATES), 9, III</i></p> |

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SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Qualifying quantity (tonnes)
for the application of lower-
tier requirements 200 t

· Qualifying quantity (tonnes)
for the application of upper-
tier requirements 500 t

· REGULATION (EC) No
1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety
assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

| | |
|--------|--|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH205 | Contains epoxy constituents. May produce an allergic reaction. |

· Department issuing data
specification sheet:

Environment protection department.

· Date of previous version:

15.10.2021

· Version number of previous
version:

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- Abbreviations and acronyms:** RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: Accord relatif au transport international 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)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 Carc. 2: Carcinogenicity – Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- * Data compared to the previous version altered.**

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