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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 10.12.2024 Version number 34 (replaces version 33) Revision: 12.10.2024

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

· 1.1 Product identifier

· Trade name MC-DUR LF 680 - Komponente A

4143 · Article number:

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

· Sector of Use SU22 Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

PC9a Coatings and paints, thinners, paint removers Product category

PROC10 Roller application or brushing · Process category

· Environmental release

category ERC8f Widespread use leading to inclusion into/onto article

(outdoor)

ERC11a Widespread use of articles with low release (indoor)

AC13 Plastic articles · Article category

· Application of the substance

/ the mixture Polyurethane lacquer

· 1.3 Details of the supplier of the safety data sheet

MC-Bauchemie Müller GmbH & Co. KG · Manufacturer/Supplier:

Am Kruppwald 1-8 D-46238 Bottrop Tel.: +49(0)2041-101-0 Fax.: +49(0)2041-101-400 E-Mail: info@mc-bauchemie.de

MC-Bauchemie AG Hagackerstr. 10 CH-8953 Dietikon Tel.: +44-7400510 Fax: +44-7400533

· Informing department:

msds@mc-bauchemie.de

1.4 Emergency telephone

number: Tel.: +49 / (0)700 24112112 (MCR)

Tel.: +1 872 5888271 (MCR)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful 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.

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· Hazard pictograms

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· Signal word Warning

· Hazard-determining

components of labelling: tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

4-morpholinecarbaldehyde

· **Hazard statements** H317 May cause an allergic skin reaction.

H412 Harmful 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/

attention.

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

· 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.

Mixture consisting of the following components.

· Dangerous components:			
CAS: 136210-30-5 ELINCS: 429-270-1	tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl) bis-DL-aspartate	80-100%	
Reg.nr.: 01-0000017556-64- xxxx	Skin Sens. 1, H317; Aquatic Chronic 3, H412		
CAS: 4394-85-8 EINECS: 224-518-3 Reg.nr.: 01-2119987993-12	4-morpholinecarbaldehyde Skin Sens. 1, H317	≥0.1-<0.5%	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information Remove soiled, soaked clothing immediately.

• After inhalation Remove person to fresh air, keep warm, allow to rest; if breathing

is difficult, seek medical attention.

· After skin contact In case of contact with skin, wash carefully with plenty of soap and

water. Consult a doctor in case of skin reactions.

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· After eye contact Rinse the eyes with open eyelids for a sufficiently long time (at

least 10 minutes) with water that is as lukewarm as possible.

Consult an ophthalmologist.

· After swallowing Do NOT induce vomiting. Rinse mouth with water. Medical

attention required.

· 4.2 Most important symptoms and effects, both acute and

delayed Advice for the doctor: Elementary aid, decontamination,

symptomatic treatment.

· 4.3 Indication of any immediate medical attention

and special treatment needed Therapeutic measures: No information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

Suitable extinguishing agents Use fire fighting measures that suit the environment.

· 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: No special measures required.

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 No dangerous materials are released.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Ensure sufficient air exchange and/or extraction in the work areas.

Air extraction is required for spray application.

For solid products: Avoid dust formation and dust deposits. Air limit values mentioned in section 8 must be monitored.

At workplaces where isocyanate aerosols and/or vapours can occur in higher concentrations, targeted air extraction must be used to prevent the occupational hygiene limit value from being

exceeded. The air must be moved away from people.

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For products containing solvents: Explosion protection required. The personal protective measures described in section 8 must be observed. The protective measures required when handling isocyanates must be observed. Avoid contact with skin and eyes

and inhalation of vapours.

Keep away from food and beverages. Wash hands before breaks and at the end of work and apply skin protection ointment. Store work clothes separately. Remove soiled, soaked clothing

immediately.

Information about protection

against explosions and fires: Keep ignition sources away - do not smoke.

Protect from heat.

Do not store near heat sources.

· 7.2 Conditions for safe storage, including any incompatibilities

Keep container dry and tightly closed. Further information on the storage conditions that must be observed for quality assurance

reasons can be found in our technical data sheet.

· Storage

Requirements to be met by

storerooms and containers: Keep tightly closed in original packaging. Ventilate storage rooms

well. Carefully close opened containers and store upright to

prevent any leakage.

Storage temperature >5°C and <30°C

· Information about storage in

one common storage facility: May be stored together with hazardous substances of other

classes up to 200 kg.

· Further information about

storage conditions: None.
Storage class 12

· 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

CAS: 136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

Dermal DNEL 4 mg/kg bw/day (ArL)
Inhalative DNEL 28 mg/m³ (ArL)

112 mg/m³ (Ark)

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· PNECs

CAS: 136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

PNEC 31.1 mg/l (Kla)

0.000013 mg/l (Mew)

0.00013 mg/l (Freshwater)

PNEC 0.1 mg/kg dwt (Bod)

0.02 mg/kg dwt (Marine water sediment)0.21 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 section 7.

· Individual protection measures, such as personal protective equipment

· General protective and

hygienic measures Do not smoke, eat or drink while working. Have eye wash

equipment ready.

Do not inhale gases/vapours/aerosols. Avoid contact with eyes and

skin.

Do not store food in the work area. Wash hands before breaks and

at the end of work.

· Breathing equipment: Respiratory protection required at insufficiently ventilated

workplaces and when working with splashes. Fresh air masks or combination filters A2-P2 (EN529) are recommended for short-

term work.

If applicable, further recommendations for respiratory protection

can be found in the appendix.

In case of hypersensitivity of the respiratory tract (asthma, chronic

bronchitis), handling of the product is not recommended.

Hand protection Suitable materials for protective gloves; EN 374:

Butyl rubber - IIR: thickness ≥ 0.5 mm; breakthrough time ≥ 480 min. Fluororubber - FKM: thickness ≥ 0.4 mm; breakthrough time

≥480mın.

Multi-layer glove - PE/EVAL/PE; Breakthrough time ≥480 min.

Recommendation: Dispose of contaminated gloves.

• 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.

· Penetration time of glove

material

Butyl rubber - IIR: thickness \geq 0.5mm; breakthrough time \geq 480min. Fluoro rubber - FKM: thickness \geq 0.4mm; breakthrough time

≥480min.

Multi-layer glove - PE/EVAL/PE; Breakthrough time ≥480 min.

· Eye/face protection

Wear safety goggles/face protection.

Body protection: Wear suitable protective clothing when working.

In case of hypersensitivity of the skin, handling of the product is not

recommended.



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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Cloudy

Smell: Weak, characteristicMelting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range 185 °C (CAS: 136210-30-5 tetraethyl-N,N'-

(methylenedicyclohexane-4,1-diyl)bis-DL-

aspartate)

· Flash point: Not applicable

· Auto-ignition temperature: 350 °C (CAS: 152637-10-0 poly(oxy(methyl-1,2-

ethanediyl)))

· **pH** Not applicable.

Not determined.

· Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.300 mPas

· Solubility

· Water: Not miscible or difficult to mix

· Steam pressure at 20 °C: 2 hPa (CAS: 152637-10-0 poly(oxy(methyl-1,2-

ethanediyl)))

· Vapour pressure at 50 °C: 8 hPa

· Density and/or relative density

Density at 20 °C 1.08 g/cm³

· 9.2 Other information

· Appearance:

· Form: Liquid

· 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

Void · Explosives · 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

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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.

· 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:

CAS: 136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

Oral LD50 >2000 mg/kg (rat) (67/548/EWG, Annex V, B.1)
Dermal LD50 >2000 mg/kg (rat) (67/548/EWG, Annex V, B.3)

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 May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 136210-30-5 tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

LC50/96h 66 mg/l (Danio rerio) (OECD 203)

EC50 3110 mg/l (BEL)

EC50/48h 88.6 mg/l (Daphnia magna) NOEC 0.01 mg/l (Daphnia magna)

ErC50/72h | 113 mg/l (Scenedesmus subspicatus)

· 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

Sensitising

HP13

• 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 12	waste paint and varnish other than those mentioned in 08 01 11		

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HP14 Ecotoxic

· 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, ADN, IMDG, IATA Void

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA Void

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Not applicable

· 14.7 Maritime transport in bulk according to

IMO instruments Not applicable.

· UN "Model Regulation": Void

SECTION 15: Regulatory information

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

substance or mixture

No further relevant information available.

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.

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· 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 H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Date of previous version: 19.10.2021

· Version number of previous

version:

33

· 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 Skin Sens. 1: Skin sensitisation - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic

hazard - Category 3

* * Data compared to the previous version altered.