

Page 1/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023 Version number 18 (replaces version 17) Revision: 08.07.2023

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

· 1.1 Product identifier

· Trade name MC-Estrifan Color Protect Pro - Komponente B

4387 · Article number:

· 1.2 Relevant identified uses of the substance or mixture

and uses advised against No further relevant information available.

· Application of the substance

/ the mixture Coating compound/ Surface coating/ paint

Hardening agent/ Curing agent

· 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:

1.4 Emergency telephone

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

Tel.: +48612864565

msds@mc-bauchemie.de

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

Aguatic Chronic 3 H412 Harmful to aguatic 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 GB CLP regulation.

· Hazard pictograms



(Contd. on page 2)



Page 2/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023 Version number 18 (replaces version 17) Revision: 08.07.2023

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 1)

· Signal word

· Hazard-determining

components of labelling: Hydrophiles, aliphatisches Polyisocyanat

Warning

Hexamethylen-1,6-diisocyanat Homopolymer

hexamethylene diisocyanate

Hazard statements H332 Harmful if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

• Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye

protection/face protection/hearing protection.

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

P321 Specific treatment (see on this label).

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

attention.

P403+P233 Store in a well-ventilated place. Keep container tightly

closed.

· Additional information: Contains isocyanates. May produce an allergic reaction.

· 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:** Mixture consisting of the following components.

· Dangerous components:			
CAS: 160994-68-3	Hydrophiles, aliphatisches Polyisocyanat	80-100%	
	Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412, EUH204		
CAS: 3779-63-3	Hexamethylen-1,6-diisocyanat Homopolymer	≥1-<10%	
EINECS: 223-242-0	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335		
CAS: 822-06-0	hexamethylene diisocyanate	<0.1%	
EINECS: 212-485-8 Reg.nr.: 01-2119457571-37- 0000	Acute Tox. 2, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥0.5 %		
	Skin Sens. 1; H317: C ≥ 0.5 %	td. on page 3)	

(Contd. on page 3)



Page 3/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023 Version number 18 (replaces version 17) Revision: 08.07.2023

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 2)

• 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. If

symptoms persist, consult doctor.

• After swallowing Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

· 4.2 Most important symptoms

and effects, both acute and

delayed No further relevant information available.

· 4.3 Indication of any

immediate medical attention

and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with

water jet or alcohol-resistant foam.

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: Inform respective authorities in case product reaches water or

sewage system.

• 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust). Ensure adequate ventilation.

· 6.4 Reference to other

sections See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

(Contd. on page 4)



Page 4/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023 Version number 18 (replaces version 17) Revision: 08.07.2023

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 3)

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· 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: None.
Storage class 10

· 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:

822-06-0 hexamethylene diisocyanate

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

DNELS

822-06-0 hexamethylene diisocyanate

Inhalative DNEL 0.5 mg/m³ (ArL)

PNECs

822-06-0 hexamethylene diisocyanate

PNEC | 100 mg/l (Sewage Treatment Plant)

0.0199 mg/l (Mew) 0.199 mg/l (Suw)

PNEC 8884 mg/kg dwt (Bod)

4455 mg/kg dwt (Marine water sediment) 44551 mg/kg dwt (Fresh water sediment)

(Contd. on page 5)



Page 5/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023 Version number 18 (replaces version 17) Revision: 08.07.2023

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 4)

· Ingredients with biological limit values:

822-06-0 hexamethylene diisocyanate

BMGV 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

• 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 Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

· Breathing equipment: Respiratory protection is required at inadequately ventilated

workplaces and during spray processing. Fresh air masks or combination filters A2-P2 are recommended for short-term work.

• Hand protection Conditionally suitable materials for protective gloves; EN 374-3:

Nitrile rubber - NBR: Thickness ≥ 0.35mm.

Only suitable for splash protection. Only suitable for short-term exposure. In case of contamination, the protective gloves must be

changed immediately. Nitrile rubber, NBR

· Material of gloves

Penetration time of glove

material The exact break trough time has to be found out by the

manufacturer of the protective gloves and has to be observed.

• Eye/face protection Safety glasses

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Colour: Colourless
 Smell: Characteristic
 Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range 175 °C
• Flash point: 70 °C
• pH at 20 °C 7

Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.2000 mPas

·Solubility

· Water: Not miscible or difficult to mix

(Contd. on page 6)



Page 6/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023 Version number 18 (replaces version 17) Revision: 08.07.2023

Not determined.

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 5)

· Steam pressure:

· Density and/or relative density

· Density at 20 °C 1.15 g/cm³

· 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 Void

Self-heating substances and mixtures Substances and mixtures, which emit

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Void
Void
Void
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 Reacts with amines

• 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

GB



Page 7/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023 Version number 18 (replaces version 17) Revision: 08.07.2023

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 6)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Harmful if inhaled.

· LD/LC50 values that are relevant for classification:

160994-68-3 Hydrophiles, aliphatisches Polyisocyanat

 Oral
 LD50
 >2000 mg/kg (rat)

 Dermal
 LD50
 >2000 mg/kg (rat)

 Inhalative
 LC50/4 h
 0.39 mg/l (rat)

822-06-0 hexamethylene diisocyanate

Oral LD50 738 mg/kg (rat)
Inhalative LC50/4 h 0.39 mg/l (rat)

Skin corrosion/irritation Causes skin irritation.

Respiratory or skin

sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

STOT-single exposure May cause respiratory irritation.

• STOT-repeated exposure
• Aspiration hazard

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

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:

160994-68-3 Hydrophiles, aliphatisches Polyisocyanat

LC50/96h 28.3 mg/l (Danio rerio) EC50 >10000 mg/l (BEL)

EC50/48h >100 mg/l (Daphnia magna)

ErC50/72h >100 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.

(Contd. on page 8)



Page 8/10

Safety data sheet according to 1907/2006/EC, Article 31

Revision: 08.07.2023 Printing date 08.07.2023 Version number 18 (replaces version 17)

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 7)

· 12.6 Endocrine disrupting

properties

The product does not contain substances with endocrine disrupting

properties.

· 12.7 Other adverse effects

· Remark: Harmful to fish

· Additional ecological information:

· General notes: Harmful to aquatic organisms

Do not allow undiluted product or large quantities of it to reach

ground water, water bodies or sewage system.

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.

· Uncleaned packagings:

Empty contaminated packagings thoroughly. They can be recycled · Recommendation:

after thorough and proper cleaning.

Recommended cleaning

Solvent naphtha agent:

SECTION 14: Transport informa	ation	
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 accord	ling to Not applicable.	
UN "Model Regulation":	Void	



Page 9/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023 Version number 18 (replaces version 17) Revision: 08.07.2023

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 8)

SECTION 15: Regulatory information

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

· 15.2 Chemical safety

assessment:

No further relevant information available.

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.
<u>-</u>	LI21 E	Carrage alsie invitations

Causes skin irritation. H315 H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.

Harmful to aquatic life with long lasting effects. H412

EUH204 Contains isocyanates. May produce an allergic reaction.

· Department issuing data

specification sheet: Environment protection department.

· 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 (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

(Contd. on page 10)



Page 10/10

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.07.2023

Version number 18 (replaces version 17)

Trade name MC-Estrifan Color Protect Pro - Komponente B

(Contd. of page 9)

Revision: 08.07.2023

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 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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