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

Printing date 23.10.2021 Version number 6 Revision: 17.10.2021

#### 1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

• Trade name MC-Estrifan IH - Komponente A

· Relevant identified uses of the substance or mixture and

uses advised against No further relevant information available.

· Application of the substance

/ the mixture Epoxy resin Injektion

· Details of the supplier of the safety data sheet

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

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

Emergency telephone

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

Tel.: +48612864565

#### 2 Hazards identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Label elements

• GHS label elements The product is classified and labelled according to the Globally

Harmonised System (GHS).

· Hazard pictograms



GHS07 GHS09

· Signal word Warning

· Hazard-determining

components of labelling: Propyl -2,2-diphenyl-4,4'dipropyloxirane polymers and homologues

molecular weight < 700

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs

2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers

and homologues, molecular weight < 700

1,6-hexene-diglycidylether

· Hazard statements Causes skin irritation.

Causes serious eye irritation. May cause an allergic skin reaction.

Harmful to aquatic life.

Toxic to aquatic life with long lasting effects.

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

Avoid release to the environment.

Wear protective gloves / eye protection / face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterisation: Mixtures

• **Description:** Resin mixture with colouring agents.

Mixture consisting of the following components.

· Dangerous	components:	
1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	70-100%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
100-51-6	Benzyl alcohol	<25%
	Acute Tox. 4, H302; Acute Tox. 4, H332	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	≥10-<25%
	Skin Irrit. 2, H315; Skin Sens. 1, H317	
9003-36-5	2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and	≥2.5-<10%
	homologues, molecular weight < 700	
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin	
	Sens. 1, H317; Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Acute 2, H401	
16096-31-4	1,6-hexene-diglycidylether	≥1-<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Acute Tox. 5, H313; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	

• Additional information For the wording of the listed hazard phrases refer to section 16.



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#### 4 First aid measures

· 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.

· Information for doctor

· Most important symptoms and effects, both acute and

delayed No further relevant information available.

Indication of any immediate medical attention and special

treatment needed No further relevant information available.

#### 5 Firefighting measures

· Extinguishing media

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

· Special hazards arising from

the substance or mixture No further relevant information available.

· Advice for firefighters

• **Protective equipment:** No special measures required.

#### 6 Accidental release measures

· Personal precautions, protective equipment and

emergency procedures Not required.

Environmental precautions: Prevent material from reaching sewage system, holes and cellars.

· Methods and material for

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

universal binders, sawdust).

• 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.

#### 7 Handling and storage

· Handling

· Precautions for safe handling Store in cool, dry place in tightly closed containers.

Open and handle container with care.

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· Information about protection

against explosions and fires: No special measures required.

· 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.

· Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about

design of technical systems: No further data; see item 7.

· Control parameters

· Compon	ents with critical values that require monitoring at the workplace:
100-51-6	Benzyl alcohol
WEEL (U	SA) Long-term value: 10 ppm
·DNELs	
100-51-6	Benzyl alcohol
Oral	DNFL 4 ma/kg hw/Tag (Arl.)

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

40 mg/kg bw/day (Ark)

Inhalative DNEL 22 mg/m³ (ArL)

110 mg/m³ (Ark)

#### 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Oral DNEL 1 mg/kg bw/Tag (ArL)
Dermal DNEL 1.7 mg/kg bw/day (ArL)
Inhalative DNEL 0.98 mg/m³ (ArL)

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

Dermal DNEL 2.8 mg/kg bw/day (ArL)

Inhalative DNEL 4.9 mg/m³ (ArL)

### PNECs

### 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)

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68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

osou9-97-2 oxirane, mono[(C12-14-aikyloxy)methylj deriv

5.27 mg/kg dwt (Fresh water sediment)

PNEC | 0.00072 mg/l (Mew)

0.0072 mg/l (Suw)

PNEC 80.12 mg/kg dwt (Bod)

6.677 mg/kg dwt (Sediment)

66.77 mg/kg dwt (Fresh water sediment)

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)

Additional information: The lists that were valid during the compilation were used as basis.

· Exposure controls

· 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.

· Protection of hands: 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.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from

material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

application.

· Penetration time of glove

Material of gloves

material

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

manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Tightly sealed safety glasses.

· Body protection: Protective work clothing.

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Information on basic physical an General Information	d chemical properties
Appearance:	
Form:	Fluid
Colour:	Light yellow
Smell:	Characteristic
Change in condition	
Melting point/freezing point:	Not determined
Initial boiling point and boiling	range: 200 °C
Flash point:	111 °C
Ignition temperature:	184 °C
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive.
Critical values for explosion:	
Lower:	1.3 Vol %
Upper:	13.0 Vol %
Steam pressure at 20 °C:	0.1 hPa
Density at 20 °C	1.14 g/cm³
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix

### 10 Stability and reactivity

Reactivity No further relevant information available.

· Chemical stability

· Thermal decomposition /

conditions to be avoided:

· Possibility of hazardous

reactions

No dangerous reactions known

No further relevant information available. · Conditions to avoid · Incompatible materials: No further relevant information available.

· Hazardous decomposition

products:

No dangerous decomposition products known

No decomposition if used according to specifications.

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### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

	· Acute toxicity		
	· LD/LC50 values that are relevant for classification:		
	1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
	Dermal	LD50	23000 mg/kg (rabbit)
	100-51-6 l	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)
	68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs		14-alkyloxy)methyl] derivs
	Oral	LD50	17100 mg/kg (rat)
	9003-36-5 2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and		
		homologues, molecula	ar 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)
_			

Primary irritant effect:

· **Skin corrosion/irritation** Irritant for skin and mucous membranes.

· Serious eye damage/irritation Irritant effect.

· Respiratory or skin

**sensitisation** Sensitization possible by skin contact.

· Additional toxicological

information: The product shows the following dangers according to the

calculation method of the General EC Classification Guidelines for

Preparations as issued in the latest version:

Irritant

### 12 Ecological information

· Toxicity

· Aquatic to	· Aquatic toxicity:	
1675-54-3 l	1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane	
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)
100-51-6 Be	enzyl alcohol
IC50/72h	700 mg/l (algae)
LC50/96h	460 mg/l (Pimephales promelas)
	10 mg/l (Lepomis macrochirus)
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs
EbC50/72h	843 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>5000 mg/l (Oncorhynchus mykiss)
	1800 mg/l (Lepomis macrochirus)
EC50	>100 mg/l (BEL)
NOEC	500 mg/l (Pseudokirchneriella subcapitata)
	.,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane polymers and nomologues, 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)

· Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

· Bioaccumulative potential No further relevant information available. · Mobility in soil No further relevant information available.

· Additional ecological information:

Do not allow product to reach ground water, water bodies or · General notes:

sewage system.

Danger to drinking water if even small quantities leak into soil.

· Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

· Other adverse effects No further relevant information available.

#### 13 Disposal considerations

· Waste treatment methods

Must not be disposed of together with household garbage. Do not Recommendation

allow product to reach sewage system.

· Uncleaned packagings:

Recommendation: Empty contaminated packagings thoroughly. They can be recycled

after thorough and proper cleaning.



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Transport information	
UN-Number ADR, IMDG, IATA	UN3082
UN proper shipping name ADR, IATA IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (epoxide derivates, oxiran mono[(C12-14-alkyloxy)methyl] derivs) ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (epoxide derivates, oxiran mono[(C12-14-alkyloxy)methyl] derivs), MARIN POLLUTANT
Transport hazard class(es)	
ADR Class	9 (M6) Miscellaneous dangerous substances ar articles.
Label	9
IMDG, IATA Class Label	9 Miscellaneous dangerous substances and articles. 9
Packing group ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA):	no Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances ar
Kemler Number: EMS Number: Stowage Category	articles. 90 F-A,S-F A
Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 (-)
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• Remarks: 1 kg Gebinde:Begrenzte Mengen

· IMDG

· Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATES, OXIRANE, MONO[(C12-14-

ALKYLOXY)METHYL] DERIVS), 9, III

### 15 Regulatory information

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

· Directive 2012/18/EU

· Named dangerous

substances - ANNEX I None of the ingredients is listed.

• Seveso category E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-

tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-

tier requirements 500 t

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 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.

· Department issuing data

**specification sheet:** Environment protection department.

· Contact:

· 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

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)

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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 Acute Tox. 5: Acute toxicity – Category 5 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

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

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