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Safety Data Sheet according to P.U.(A) 310/2013

Printing date 12.04.2025 Version number 52 Revision: 12.04.2025

1 Identification of the hazardous chemical and of the supplier

· Product identifier

· Trade name MC-DUR 1365 HBF - Komponente A

Recommended use of the chemical and restrictions on

use

No further relevant information available.

Application of the substance

/ the mixture

Epoxy coating

· 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

2 Hazard identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause allergic skin reaction.

Repr. 1B H360 May damage fertility or the unborn child.

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









GHS05 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard-determining

components of labelling: 4,4'-Methylenediphenyldiglycidyl ether

Oxirane, 2-methyl-, polymer with 2,4-diisocyanato-1-methylbenzene, 2-methyloxirane polymer with oxirane ether with 1,2,3-propanetriol (3:1) and oxirane, cashew nutshell liquid and

propyl alcohol blocked

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Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

Hydrocarbons, C9-unsaturated, polymerised

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}

methyl)oxirane

· Hazard statements H315 Causes skin irritation.

> H318 Causes serious eye damage. H317 May cause allergic skin reaction. H360 May damage fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects. · Precautionary statements P261 Avoid breathing dust/fume/ gas/mist/vapours/

P280 Wear protective gloves / eye protection / face

protection.

P281 Use personal protective equipment as required.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

P310 P321 Specific treatment (see on this label).

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

3 Composition and information of the ingredients of the hazardous chemical

· Chemical characterisation: Mixtures

Description: Mixture consisting of the following components.

Dangerous compor	nents:	
CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether	30-60%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane (1:2)	<i>≥</i> 2.5-<10%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 1227870-90-7	Oxirane, 2-methyl-, polymer with 2,4-diisocyanato-1-methylbenzene, 2-methyloxirane polymer with oxirane ether with 1,2,3-propanetriol (3:1) and oxirane, cashew nutshell liquid and propyl alcohol blocked	≥3-<10%
	Eye Dam. 1, H318; Skin Sens. 1, H317	



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CAS: 71302-83-5	Hydrocarbons, C9-unsaturated, polymerised	≥2.5-<5%
	Asp. Haz., H304; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 68609-97-2	Oxirane, mono((C12-14-alkyloxy)methyl)derivatives	≥1-<2.5%
	Repr. 1B, H360; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 9003-36-5	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥1-<1.5%
CAS: 8007-24-7	decarboxylating cashew nut shell liquid Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.1-<0.5%

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

4 First-aid measures

· Description of first aid measures

General information Remove contaminated clothing immediately. Consult a doctor if

symptoms occur. Move affected person to fresh air.

· After inhalation Supply fresh air; seek medical advice if symptoms occur.

If unconscious, place in recovery position and seek medical advice.

• 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.

· After eye contact Rinse opened eye for several minutes under running water.

Call a doctor immediately

· After swallowing Rinse mouth with water. Never give anything by mouth to an

unconscious person. DO NOT induce vomiting. If symptoms

persist, consult a doctor.

· Information for doctor

· Most important symptoms

and effects, both acute and delayed

Advice for the doctor: Elementary aid, decontamination,

symptomatic treatment.

5 Fire-fighting 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.

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6 Accidental release measures

Personal precautions, protective equipment and

emergency procedures Not required.

Environmental precautions: Inform respective authorities in case product reaches water or

sewage system.

· Methods and material for

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

universal binders, sawdust). Ensure adequate ventilation.

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 Open and handle containers with care.

Ventilation measures are required in rooms without sufficient air

exchange (e.g. closed rooms),

because the occupational exposure limit values (see chapter 8)

could be exceeded. This must be avoided.

Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or damaged gloves and contaminated clothing immediately and wash skin immediately. Mix slowly, partially covering the mixing container. Pour carefully and slowly when repotting. Observe the BGBau technical data sheet and practical guide for handling epoxy

resins.

· Information about protection

against explosions and fires: Ensure sufficient air exchange and/or extraction in the working

areas. Take precautionary measures to avoid electrostatic

discharges.

· Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by

storerooms and containers: No special requirements.

· Further information about

storage conditions: None.
Storage class 6.1C

8 Exposure controls and personal protection

· Additional information about

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

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· 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: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

Dermal DNEL 0.75 mg/kg bw/day (ArL) Inhalative DNEL 0.49 mg/m³ (ArL)

PNECs

CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

PNEC | 0.00072 mg/l (Mew)

0.0072 mg/l (Freshwater)

PNEC 80.12 mg/kg dwt (Bod)

6.677 mg/kg dwt (Sediment)

66.77 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 food, drink and animal feed.

Remove soiled, soaked clothing immediately.
Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

Breathing equipment: If workplace limit values cannot be complied with by ventilation

measures or if rooms cannot be technically ventilated, respiratory protection must be worn: Use combination filter A1-P2 (brown/white) in rooms that cannot be ventilated. If oxygen deficiency is expected, use self-contained breathing apparatus. Observe wearing time limits according to §9 (3) GefStoffV in conjunction

with BGR 190.

• **Protection of hands:** Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation

· Material of gloves You can find help with choosing gloves on the website https://

www.bgbau.de/fileadmin/Gisbau/Projekte.pdf

For example, we recommend the Sol-vex 37-900 protective gloves from Ansell GmbH. The breakthrough time of the protective gloves can be found under point 8 "Penetration time of the glove material". The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to

manufacturer. As the product

is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be

checked before use.

Nitrile rubber

Recommended material thickness:≥ 0.4 mm

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· Penetration time of glove (Contd. of page 5)

renetration time or grove

material The breakthrough times of the Sol-vex 37-900 protective gloves

are around 8 hours.

The following applies to all other gloves:

The exact breakthrough time must be obtained from the protective

glove manufacturer and adhered to.

Nitrile rubber

Material thickness: ≥ 0.40 mm Penetration time: ≥ 480 min

Butyl rubber:

Material thickness: ≥ 0.5 mm Penetration time: ≥ 480 min Tight-fitting safety googles

Eye protection: Tight-fitting safety goggles.

Safety goggles.

Protective clothing

Suitable protective clothing should be worn when working with epoxy resins. In addition to normal work clothing (long trousers, long-sleeved shirt or T-shirt), disposable overalls, aprons, overshoes, sleeve protectors etc. may be necessary depending on the activity. Uncovered areas of skin should be avoided as far as possible, even in hot weather. If the work involves kneeling, the

lower leg area should be protected by protective trousers.

9 Physical and chemical properties

· General Information

· Body protection:

· Appearance:

Form: Viscous

Colour: According to product specification

Smell: Characteristic

· pH-value: Not determined.

· Change in condition

Melting point/freezing point Not determined

Initial boiling point and boiling range >200 °C

· Flash point: >150 °C

· Auto-ignition temperature 184 °C

• **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Product is not explosive.

· Steam pressure at 20 °C: 0.1 hPa

· Density at 20 °C 1.33 g/cm³

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· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
· Viscosity:	
dynamic at 20 °C:	50000 mPas
kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

· Chemical stability

Thermal decomposition / conditions to be avoided:

· Possibility of hazardous

reactions · Conditions to avoid

· Incompatible materials: · Hazardous decomposition

products:

No decomposition if used according to specifications.

No dangerous reactions known

No further relevant information available. No further relevant information available.

No dangerous decomposition products known

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity

LD/LC50 values that are relevant for classification:
CAS: 1675-54-3 4.4'-Methylenediphenyldialycidyl ethe

LD50 11400 mg/kg (rat) Oral Dermal LD50 23000 mg/kg (rabbit)

>2000 mg/kg (rat)

CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

Oral LD50 17100 mg/kg (rat)

CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane

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

Primary irritant effect:

· Skin corrosion or irritation

Irritant for skin and mucous membranes.

· Serious eye damage or eye

irritation

No irritant effect.

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Respiratory / skin

sensitization

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

· CMR effects (carcinogenity, mutagenicity and toxicity for

reproduction)

Repr. 1B

12 Ecological information

· Toxicity

. 1	austic	toxicity:	
	luualic	LUXICILV.	

CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether

LC50/72h >11 mg/l (algae) IC50 >42.6 mg/l (Bak)

LC50/96h 2 mg/l (Oncorhynchus mykiss)

1.3 mg/l (fish)

EC50/48h | 2.1 mg/l (daphnia)

1.8 mg/l (Daphnia magna)

ErC50/72h 11 mg/l (Selenastrum capricornutum)

CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

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)

CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]
bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]
bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)

oxirane

LC50/96h >100 mg/l (Daphnia magna) EC50/96h >100 mg/l (Leucidus idus)

· Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

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

Ecotoxical effects:

· Remark: Toxic for fish

· Additional ecological information:

• General notes: Also poisonous for fish and plankton in water bodies.

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Toxic for aquatic organisms

Do not allow product to reach ground water, water bodies or

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 information

· Waste treatment methods

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

allow product to reach sewage system.

· Uncleaned packagings:

Recommendation: Empty contaminated packagings thoroughly. They can be recycled

after thorough and proper cleaning.

UN-Number ADR, IMDG, IATA	UN3082
UN proper shipping name ADR, IATA IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCI LIQUID, N.O.S. (Epoxide resin) ENVIRONMENTALLY HAZARDOUS SUBSTANCI LIQUID, N.O.S. (Epoxide resin), MARIN
-	POLLUTANT
Transport hazard class(es)	
ADR	
Class	 (M6) Miscellaneous dangerous substances as articles.
Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
ADR, IMĎG, ÍATA	III
Environmental hazards:	
Marine pollutant:	Yes
-	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)



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Trade name MC-DUR 1365 HBF - Komponente A

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Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances ar articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
Transport in bulk according to Annex	c II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
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
Transport category	3
Tunnel restriction code	(-)
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 mi
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOL SUBSTANCE, LIQUID, N.O.S. (EPOXIDE RESIN), III

15 Regulatory information

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

· EHS reference list		
	CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether
	CAS: 68609-97-2	Oxirane, mono((C12-14-alkyloxy)methyl)derivatives

· 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

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· 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)

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 - oral - Category 4 Skin Irrit. 2: Skin corrosion or irritation - Category 2

Eye Dam. 1: Serious eye damage or eye irritation – Category 1 Eye Irrit. 2: Serious eye damage or eye irritation – Category 2

Skin Sens. 1: Skin sensitization - Category 1 Repr. 1B: Reproductive toxicity - Category 1B Asp. Haz.: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard -

Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard -

Category 3

* * Data compared to the previous version altered.