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

Printing date 13.04.2025

Version number 44

Revision: 13.04.2025

Product identifier	
Trade name	Colusal VL - Komponente B
Recommended use of the chemical and restrictions on use Application of the substance / the mixture	No further relevant information available. Anticorrosion additive Hardening agent/ Curing agent
Dataila of the suppliar of the s	
Details of the supplier of the s 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
	e e or mixture s skin irritation. s serious eye irritation.
•	ause allergic skin reaction.
•	o aquatic life with long lasting effects.
Label elements	The product is classified and labelled according to the Global
GHS label elements	Harmonised System (GHS).
	Harmonised System (GHS). GHS07 GHS09
Hazard pictograms	Harmonised System (GHS).
Hazard pictograms Signal word	Harmonised System (GHS). GHS07 GHS09
GHS label elements Hazard pictograms Signal word Hazard-determining components of labelling: Hazard statements	Harmonised System (GHS). GHS07 GHS09



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	H319 Causes se	rious eye irritation.
		allergic skin reaction.
		uatic life with long lasting effects.
Drocoutionory, statements	P261	
 Precautionary statements 	P201	Avoid breathing dust/fume/ gas/mist/vapours/ spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves / eye protection / face protection.
	P305+P351+P33	B IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P362	Take off contaminated clothing and wash before reuse.
	P363	Wash contaminated clothing before reuse.
· Other hazards		J
· Results of PBT and vPvB as	sessment	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	
	Not applicable.	

Chemical chara Description:	acterisation: Mixtures Mixture consisting of the following components.	
Dangerous con	nponents:	
CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	30-60%
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 Āquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	<i>≥</i> 2.5-<10%
CAS: 100-51-6	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	<3%

4 First-aid measures

 Description of first aid m 	
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
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After swallowing

(Contd. of page 2) 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:

· Personal precautions

No special measures required.

6 Accidental release measures

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).
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.

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· 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

· Storage class

· Requirements to be met by storerooms and containers: No special requirements. · Further information about storage conditions:

Protect from frost. 12

- 8 Exposure controls and personal protection
- · Additional information about design of technical systems: No further data; see section 7.
- · 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.

· DNEL	S			
CAS:	100-5 1	1-6 B	enzyl alcohol	
Oral	D	DNEL 4 mg/kg bw/Tag (ArL)		
			20 mg/kg bw/Tag (Ark)	
Derma	al D	NEL	8 mg/kg bw/day (ArL)	
			40 mg/kg bw/day (Ark)	
Inhalat	tive D	NEL	22 mg/m³ (ArL)	
			110 mg/m³ (Ark)	
· PNEC	s			
CAS:	100-5 1	1-6 B	enzyl alcohol	
PNEC	0.527 mg/l (Marine water sediment)			
	0.1 m	0.1 mg/l (Mew)		
	1 mg.	1 mg/l (Fresh water sediment)		
PNEC	0.456	0.456 mg/kg dwt (Bod)		
	5.27	5.27 mg/kg dwt (Fresh water sediment)		
· Additi	onal i	inforn	nation: The lists that were valid during the compilation were	e used as basis.
· Expos · Persol · Gener hygier	nal pr al pro	rotect otecti	ive equipment ve and	
				(Contd. on page 5)



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· 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		
· Penetration time of glove			
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		
• Eye protection:	Tight-fitting safety goggles. Safety goggles.		
· Body protection:	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.		

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Information on basic physical and	I chemical properties
General Information	
Appearance: Form:	Fluid
Colour:	Yellow
Smell:	Characteristic
pH-value:	Not determined.
Change in condition	
Melting point/freezing point	<0 °C
Initial boiling point and boiling r	ange 100 °C
Flash point:	Not applicable
Auto-ignition temperature	184 °C
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive.
Steam pressure at 20 °C:	23 hPa
Density	Not determined
Solubility in / Miscibility with	
Water:	Fully miscible
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.

10 Stability and reactivity · Reactivity No further relevant information available. · Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. · Possibility of hazardous No dangerous reactions known reactions · Conditions to avoid No further relevant information available. · Incompatible materials: No further relevant information available. · Hazardous decomposition products: No dangerous decomposition products known

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	values that are relevan '5-54-3 4,4'-Methylened	
Oral	LD50	11400 mg/kg (rat)
Dermal	LD50	23000 mg/kg (rabbit)
		>2000 mg/kg (rat)
CAS: 900	bis(oxirane) a	s of 2,2'-[methylenebis(2,1-phenyleneoxymethylene) nd 2,2'-[methylenebis(4,1-phenyleneoxymethylene) nd 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
CAS: 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 corr Serious e irritation Respirate sensitiza 	eye damage or eye N ory / skin tion N al toxicological ion: T	ritant for skin and mucous membranes. to irritant effect. to sensitizing effect known. The product shows the following dangers according to the alculation method of the General EC Classification Guidelines for reparations as issued in the latest version: ritant

Aquatic toxicity:		
CAS: 1675	5-54-3 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)	
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EC50/48h	2.1 mg/l (daphnia)		
	1.8 mg/l (Daphnia magna)		
ErC50/72h	11 mg/l (Selenastrum capricornutum)		
	3-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylenebis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylenebis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methy oxirane		
LC50/96h	>100 mg/l (Daphnia magna)		
EC50/96h			
CAS: 100-	51-6 Benzyl alcohol		
IC50/72h	700 mg/l (algae)		
LC50/96h	460 mg/l (Pimephales promelas)		
	10 mg/l (Lepomis macrochirus)		
Bioaccum Mobility in			
Bioaccum Mobility in	ulative potentialNo further relevant information available.o soilNo further relevant information available.I ecological information:otes:Also poisonous for fish and plankton in water bodies.Do not allow product to reach ground water, water bodies sewage system.		
Bioaccum Mobility in Additional General no	ulative potentialNo further relevant information available.soilNo further relevant information available.l ecological information:otes:Also poisonous for fish and plankton in water bodies.Do not allow product to reach ground water, water bodies		
Bioaccum Mobility in Additional General no Results of PBT:	ulative potential No further relevant information available. a soil No further relevant information available. l ecological information: Image: Source of the source o		
Bioaccum Mobility in Additional General no Results of PBT: vPvB:	ulative potentialNo further relevant information available.o soilNo further relevant information available.l ecological information:otes:Also poisonous for fish and plankton in water bodies.Do not allow product to reach ground water, water bodies sewage system. Danger to drinking water if even small quantities leak into soil.f PBT and vPvB assessment		

· Waste treatment methods · Recommendation	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Uncleaned packagings: 	

Recommendation:

Disposal must be made according to official regulations.

14 Transportation information		
· UN-Number · ADR, IMDG, IATA	UN3082	
		(Contd. on page 9
		N



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UN proper shipping name ADR, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE	
	LIQUID, N.O.S. (Epoxide resin)	
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE	
	LIQUID, N.O.S. (Epoxide resin), MARIN	
	POLLUTANT	
Transport hazard class(es)		
ADR		
Class	9 (M6) Miscellaneous dangerous substances an	
Label	articles. 9	
IMDG, IATA Class	0 Missellaneous dengerous substances and articles	
Label	<i>9 Miscellaneous dangerous substances and articles. 9</i>	
	v	
Packing group ADR, IMDG, IATA	<i>III</i>	
Environmental hazards:		
Environmental nazaros: Marine pollutant:	Yes	
	Symbol (fish and tree)	
Special marking (ADR):	Symbol (fish and tree)	
Special marking (IATÁ):	Symbol (fish and tree)	
Special precautions for user	Warning: Miscellaneous dangerous substances an	
	articles.	
Kemler Number:	90	
EMS Number: Stowage Category	F-A,S-F	
Stowage Category	A	
Transport in bulk according to Anne Marpol and the IBC Code	x II of Not applicable.	
•		
Transport/Additional information:		
ADR	FI	
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1	
Encepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 300 ml	
Transport category	3	
Tunnel restriction code	(-)	
	Begrenzte Mengen	
Remarks:	9 9	
Remarks: IMDG Limited quantities (LQ)	5L	
Remarks: IMDG	5L Code: E1	
Remarks: IMDG Limited quantities (LQ)	5L	

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	(Contd. of page 9)
· Remarks:	Begrenzte Mengen
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE RESIN), 9, 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: 100-51-6 Benzyl alcohol
- · Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. E2 Hazardous to the Aquatic Environment · Seveso category Qualifying quantity (tonnes) for the application of lower-200 t tier requirements · Qualifying quantity (tonnes) for the application of uppertier 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: Contact:	Environment protection department.
	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 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
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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 Irrit. 2: Serious eye damage or eye irritation – Category 2 Skin Sens. 1: Skin sensitization – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard – Category 2

 * Data compared to the previous version altered.

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