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## Safety data sheet

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

Printing date 11.05.2024

Version number 27 (replaces version 26)

Revision: 08.05.2024

SECTION 1: Identification of the substance/mixture and of the company/ undertaking	
· 1.1 Product identifier	
<ul> <li>Trade name</li> <li>1.2 Relevant identified uses</li> <li>Sector of Use</li> <li>Application of the substanc</li> </ul>	<u>BRAWO SRR - Komponente A</u> of the substance or mixture and uses advised against SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
/ the mixture	Epoxy curing agent
• 1.3 Details of the supplier of • Manufacturer/Supplier:	f the safety data sheet BRAWO SYSTEMS GmbH Blechhammerweg 13-17 67659 Kaiserslautern Deutschland/Germany
	Tel: +49(0)631-205 61 100
· Informing department:	Technische Abteilung msds@brawoliner.de
<ul> <li>1.4 Emergency telephone number:</li> </ul>	+49 (0) 61 31 - 19 240 (Giftnotruf Mainz)
SECTION 2: Hazards id	entification

## · 2.1 Classification of the substance or mixture

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

H315 Causes skin irritation. Skin Irrit. 2

Eye Irrit. 2 H319 Causes serious eye irritation.

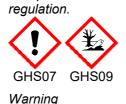
Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic 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 GB CLP

· Hazard pictograms



· Signal word

Hazard-determining components of labelling:

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

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

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#### Trade name BRAWO SRR - Komponente A

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	maleic anhydrid	de
	Oxirane, mono	[(C12-14-alkyloxy)methyl] derivatives
<ul> <li>Hazard statements</li> </ul>	H315 Causes s	skin irritation.
	H319 Causes s	serious eye irritation.
		se an allergic skin reaction.
		aquatic life with long lasting effects.
· Precautionary statements	P261	Avoid breathing dust/fume/gas/mist/vapours/
Trecautionary statements	1 201	
	P273	spray. Avoid release to the environment.
	P280	Wear protective gloves / eye protection / face protection.
	P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for
		several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/ attention.
• Additional information:		oid risks to human health and the environment, ly with the instructions for use.
		ains epoxy constituents. May produce an allergic
	reactio	on.
· 2.3 Other hazards		
· Results of PBT and vPvB as	ssessment	
· PBT:	Not applicable.	
vPvB:	Not applicable.	
	1,	

### **SECTION 3: Composition/information on ingredients**

• 3.2 Mixtures • Description:

Mixture consisting of the following components.

CAS: 1675-54-3	epoxide derivates	60-80%
EINECS: 216-823-5	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205	
CAS: 9003-36-5 EC number: 701-263-0	Reaction mass of 2,2'-[methylenebis(4,1- phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2'- [methylenebis(2,1-phenyleneoxymethylene)]dioxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	<i>≥</i> 10-<25
CAS: 933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane (1:2) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	<i>≥</i> 2.5-<10



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CAS: 68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	<i>≥</i> 0.1-<0.5%
EINECS: 271-846-8	Skin Irrit. 2, H315; Skin Sens. 1, H317, EUH205	
CAS: 108-31-6	maleic anhydride	<0.001%
EINECS: 203-571-6	Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071	
	Specific concentration limit: Skin Sens. 1A; H317: C $\geq$ 0.001 %	
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 me	asures
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.
<ul> <li>4.2 Most important symptoms and effects, both acute and</li> </ul>	5
delayed	Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

#### **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
- · 5.3 Advice for firefighters

No further relevant information available.

- Protective equipment:
  - No special measures required.

### **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures

Not required.

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· 6.2 Environmental	
precautions:	Inform respective authorities in case product reaches water or sewage system.
	Dilute with much water.
• 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.
<sup>•</sup> 6.4 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.

#### **SECTION 7: Handling and storage**

 7.1 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.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

<ul> <li>Requirements to be met by storerooms and containers:</li> <li>Further information about</li> </ul>	No special requirements.
storage conditions:	<i>Keep container tightly closed in a well-ventilated place.</i>
· Storage class	10

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

• Components with critical values that require monitoring at the workplace:

#### CAS: 108-31-6 maleic anhydride

WEL Short-term value: 3 mg/m<sup>3</sup> Long-term value: 1 mg/m<sup>3</sup> Sen

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DNELS	mono[(C12-14-alkyloxy)methyl] derivatives
Oral DNEL 1 mg/kg by	
Dermal DNEL 1.7 mg/kg	
Inhalative DNEL 0.98 mg/m	
PNECs	
-	mono[(C12-14-alkyloxy)methyl] derivatives
PNEC 0.00072 mg/l (Mew)	
0.0072 mg/l (Freshwa	,
PNEC 80.12 mg/kg dwt (Bo	,
6.677 mg/kg dwt (Se	diment)
66.77 mg/kg dwt (Fre	esh water sediment)
Additional information:	The lists that were valid during the compilation were used as basi
8.2 Exposure controls	
Appropriate engineering	
controls	No further data; see section 7.
Individual protection meas General protective and	ures, such as personal protective equipment
hygienic measures	Keep away from food, drink and animal feed.
nygieme medsures	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, respirato protection must be worn: Use combination filter A1-P2 (brow
	white) in rooms that cannot be ventilated. If oxygen deficiency
	expected, use self-contained breathing apparatus. Observ
	wearing time limits according to §9 (3) GefStoffV in conjunction
	with BGR 190.
Hand protection	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
Material of gloves	www.bgbau.de/fileadmin/Gisbau/Projekte.pdf
	For example, we recommend the Sol-vex 37-900 protective glove
	from Ansell GmbH. The breakthrough time of the protective glov
	can be found under point 8 "Penetration time of the glove materia
	The selection of a suitable glove depends not only on the materia but also on other quality features and varies from manufacturer
	manufacturer. As the product
	is a preparation of several substances, the resistance of glow
	materials cannot be calculated in advance and must therefore l
	checked before use.
	Nitrile rubber Recommended material thickness:≥ 0.4 mm
Penetration time of glove	Neconinienaea materiai thickness.≥ 0.4 mm
material	The breakthrough times of the Sol-vex 37-900 protective glove
	are around 8 hours.
	(Contd. on page



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	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: $\geq$ 0.40 mm
	Penetration time: $\geq$ 480 min
	Butyl rubber:
	Material thickness: ≥ 0.5 mm
	Penetration time: $\geq$ 480 min
· Eye/face protection	Tight-fitting safety goggles.
_,	Safety goggles.
· Body protection:	Protective clothing
body protection.	•
	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.

9.1 Information on basic physical and cher	nical properties
General Information	
Physical state	Fluid
Colour:	Green
Smell:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and	
boiling range	>320 °C (CAS: 1675-54-3 epoxide derivates)
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	>93 °C
Auto-ignition temperature:	455 °C (CAS: 1675-54-3 epoxide derivates)
Decomposition temperature:	Not determined.
pH	Mixture is non-soluble (in water).
	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	
Water:	Fully miscible
Partition coefficient n-octanol/water (log	-
value)	Not determined.
Steam pressure at 20 °C:	0 hPa (CAS: 1675-54-3 epoxide derivates)



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Density and/or relative density		
Density at 20 °C	1.14 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
9.2 Other information		
Appearance:		
Form:	Fluid	
Important information on protection of hea	alth	
and environment, and on safety.		
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Change in condition	·	
Evaporation rate	Not determined.	
Explosives Flammable gases	Void 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	
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	stable
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
<ul> <li>10.3 Possibility of hazardous</li></ul>	No dangerous reactions known
reactions <li>10.4 Conditions to avoid</li>	No further relevant information available.
	No further relevant information available. (Contd. on page 8)

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#### Trade name BRAWO SRR - Komponente A

· 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: 1675-54-3 epoxide derivates

Dermal LD50 23000 mg/kg (rabbit)

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

- Oral LD50 >2000 mg/kg (rat)
- Dermal LD50 >2000 mg/kg (rabbit)
- CAS: 68609-97-2 Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives

Oral LD50 17100 mg/kg (rat)

CAS: 108-31-6 maleic anhydride Oral LD50 1090 mg/kg (rat)

Dermal LD50 2620 mg/kg (rat)

- Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin
- sensitisation May cause an allergic skin reaction.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties
- CAS: 128-37-0 2,6-Di-tert-butyl-p-cresol

SECTION 12: Ecological information

· 12.1 Toxici	ty		
· Aquatic to	cicity:		
CAS: 1675-	54-3 epoxide derivates		
IC50	>42.6 mg/l (Bak)		
LC50/96h	2 mg/l (Oncorhynchus mykiss)		
EC50/48h	1.8 mg/l (Daphnia magna)		
ErC50/72h	11 mg/l (Selenastrum capricornutum)		
CAS: 9003-	36-5 Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2'- [methylenebis(2,1-phenyleneoxymethylene)]dioxirane		
LC50/96h	>100 mg/l (Daphnia magna)		
EC50/96h	>100 mg/l (Leucidus idus)		

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List II

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CAS: 68609	9-97-2 Oxirane, I	mono[(C12-14-alkyloxy)methyl] derivatives	
EbC50/72h	843 mg/l (Pseudokirchneriella subcapitata)		
LC50/96h	>5000 mg/l (On	corhynchus mykiss)	
	1800 mg/l (Lepo	omis macrochirus)	
EC50	>100 mg/l (BEL)		
NOEC	500 mg/l (Pseudokirchneriella subcapitata)		
12.2 Persis	tence and		
degradabil	ity	No further relevant information available.	
12.3 Bioaco	cumulative		
potential		No further relevant information available.	
<sup>•</sup> 12.4 Mobility in soil		No further relevant information available.	
12.5 Result	ts of PBT and ve	PvB assessment	
PBT:		Not applicable.	
vPvB:		Not applicable.	
	rine disrupting		
properties		For information on endocrine disrupting properties see section 11.	
	adverse effects		
· Remark:		Toxic for fish	
	ecological infor		
General notes:		Toxic for aquatic organisms	
		Also poisonous for fish and plankton in water bodies.	
		Do not allow product to reach ground water, water bodies of	
		sewage system.	
		Danger to drinking water if even small quantities leak into soil.	

**SECTION 13: Disposal considerations** 

<ul> <li>13.1 Waste treatment metho</li> <li>Recommendation</li> </ul>	ds Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
• Uncleaned packagings: • Recommendation:	Dispose of packaging according to regulations on the disposal of packagings. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
<ul> <li>Recommended cleaning agent:</li> </ul>	Water, if necessary with cleaning agent.

# SECTION 14: Transport information · 14.1 UN number or ID number · ADR, IMDG, IATA UN3082

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<i>14.2 UN proper shipping name ADR, IATA IMDG</i>	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (epoxide derivates, ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (epoxide derivates
	MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances ar articles.
Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances ar articles.
Label	9
14.4 Packing group ADR, IMDG, IATA	<i>III</i>
14.5 Environmental hazards: Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances ar articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk accordi IMO instruments	ng to 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: 100 ml
Transport category	3
Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ)	5L
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• 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), 9, III

## **SECTION 15: Regulatory information**

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

I DISONS ACL	
· Regulated explosives precurs	iors
None of the ingredients is listed	
· Regulated poisons	
None of the ingredients is listed	
· Reportable explosives precur	sors
None of the ingredients is listed	
· Reportable poisons	
None of the ingredients is listed	
· 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
<ul> <li>15.2 Chemical safety</li> </ul>	
assessment:	A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information			
· Relevant phrases	H302	Harmful if swallowed.	
	H314	Causes severe skin burns and eye damage.	
	H315	Causes skin irritation.	
	H317	May cause an allergic skin reaction.	
	H318	Causes serious eye damage.	
	H319	Causes serious eye irritation.	
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		ause allergy or asthma symptoms or breathi ties if inhaled.
	H372 Cause exposi	s damage to organs through prolonged or repeat ure
		to aquatic life with long lasting effects.
		ul to aquatic life with long lasting effects.
		sive to the respiratory tract.
		ins epoxy constituents. May produce an aller
	reactio	
<ul> <li>Abbreviations and acronyms</li> </ul>	RID: Règlement dangereuses par Transport of Dange	international concernant le transport des marchandis chemin de fer (Regulations Concerning the Internatio rous Goods by Rail) Civil Aviation Organisation
	ADR: Accord relati	f au transport international des marchandises dangereuses greement Concerning the International Carriage of Danger
		I Maritime Code for Dangerous Goods
		Air Transport Association
	EINECS: European	nonised System of Classification and Labelling of Chemicals Inventory of Existing Commercial Chemical Substances
		List of Notified Chemical Substances
		stracts Service (division of the American Chemical Society) Effect Level (UK REACH)
		o-Effect Concentration (UK REACH)
		ntration, 50 percent
	LD50: Lethal dose,	
	,	oaccumulative and Toxic
		ent and very Bioaccumulative e toxicity – Category 4
		corrosion/irritation – Category 1B
	Skin Irrit. 2: Skin co	prrosion/irritation – Category 2
		is eye damage/eye irritation – Category 1
		eye damage/eye irritation – Category 2 piratory sensitisation – Category 1
		sensitisation – Category 1
		n sensitisation – Category 1A
		ic target organ toxicity (repeated exposure) – Category 1 : Hazardous to the aquatic environment - long-term aqua 2
		: Hazardous to the aquatic environment - long-term aqua
• * Data compared to the	- /	