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

Printing date 14.01.2022

Version number 11

Revision: 14.01.2022

1.1 Product identifier		
 Trade name 1.2 Relevant identified uses of the substance or mixture 	BRAWO TC - Komponente B	
and uses advised against Application of the substance	No further relevant information available.	
/ the mixture	Epoxy resin Hardening agent/ Curing agent	
1.3 Details of the supplier of t Manufacturer/Supplier:	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	
1.4 Emergency telephone number:	+49 (0) 61 31 - 19 240 (Giftnotruf Mainz)	
Classification according to R	egulation (EC) No 1272/2008	
Classification according to R Acute Tox. 4 H302 Harmf	egulation (EC) No 1272/2008 ful if swallowed.	
Classification according to RAcute Tox. 4H302 HarmfSkin Corr. 1BH314 Cause	egulation (EC) No 1272/2008 ful if swallowed. es severe skin burns and eye damage.	
Classification according to RAcute Tox. 4H302 HarmfSkin Corr. 1BH314 CauseEye Dam. 1H318 Cause	egulation (EC) No 1272/2008 ful if swallowed. es severe skin burns and eye damage. es serious eye damage.	
Classification according to RAcute Tox. 4H302 HarmfSkin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May c	egulation (EC) No 1272/2008 ful if swallowed. es severe skin burns and eye damage.	
Classification according to RAcute Tox. 4H302 HarmfSkin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May causeAquatic Chronic 2H411 Toxic2.2 Label elements	egulation (EC) No 1272/2008 ful if swallowed. es severe skin burns and eye damage. es serious eye damage. ause an allergic skin reaction.	
Classification according to RAcute Tox. 4H302 HarmfSkin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May causeAquatic Chronic 2H411 Toxic2.2 Label elementsLabelling according to	egulation (EC) No 1272/2008 Ful if swallowed. As severe skin burns and eye damage. As serious eye damage. ause an allergic skin reaction. to aquatic life with long lasting effects. B The product is classified and labelled according to the C	
Classification according to RAcute Tox. 4H302 HarmfSkin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May cAquatic Chronic 2H411 Toxic2.2 Label elementsLabelling according toRegulation (EC) No 1272/2008	egulation (EC) No 1272/2008 ful if swallowed. as severe skin burns and eye damage. as serious eye damage. ause an allergic skin reaction. to aquatic life with long lasting effects.	
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Classification according to R Acute Tox. 4 H302 Harmf Skin Corr. 1B H314 Cause Eye Dam. 1 H318 Cause Skin Sens. 1 H317 May c Aquatic Chronic 2 H411 Toxic 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms	egulation (EC) No 1272/2008 ful if swallowed. es severe skin burns and eye damage. es severe skin burns and eye damage. ause an allergic skin reaction. to aquatic life with long lasting effects. B The product is classified and labelled according to the C regulation. GHS05 GHS07 GHS05 GHS07 GHS05 GHS07 Source Polyoxypropylentriamin 3-aminomethyl-3,5,5-trimethylcyclohexylamine Polyoxypropylenediamine polymer amine terminated	
Classification according to R Acute Tox. 4 H302 Harmf Skin Corr. 1B H314 Cause Eye Dam. 1 H318 Cause Skin Sens. 1 H317 May c Aquatic Chronic 2 H411 Toxic 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard-determining	egulation (EC) No 1272/2008 ful if swallowed. es severe skin burns and eye damage. es serious eye damage. ause an allergic skin reaction. to aquatic life with long lasting effects. B The product is classified and labelled according to the C regulation. GHS05 GHS07 GHS09 Danger Polyoxypropylentriamin 3-aminomethyl-3,5,5-trimethylcyclohexylamine Polyoxypropylenediamine	
Skin Corr. 1BH314 CauseEye Dam. 1H318 CauseSkin Sens. 1H317 May caAquatic Chronic 2H411 Toxic2.2 Label elementsLabelling according toRegulation (EC) No 1272/2008Hazard pictogramsSignal wordHazard-determining	 egulation (EC) No 1272/2008 ful if swallowed. es severe skin burns and eye damage. es serious eye damage. ause an allergic skin reaction. to aquatic life with long lasting effects. B The product is classified and labelled according to the C regulation. GHS05 GHS07 GHS09 Danger Polyoxypropylentriamin 3-aminomethyl-3,5,5-trimethylcyclohexylamine Polyoxypropylenediamine polymer amine terminated 3-(trimethoxysilyl)propylamine 	



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	H314 Causes se	evere skin burns and eye damage.
	H317 May cause	e an allergic skin reaction.
	H411 Toxic to ac	quatic life with long lasting effects.
· Precautionary statements	P101	If medical advice is needed, have product
-		container or label at hand.
	P102	Keep out of reach of children.
	P103	Read carefully and follow all instructions.
	P260	Do not breathe dusts or mists.
	P303+P361+P3	53 IF ON SKIN (or hair): Take off immediately all
		contaminated clothing. Rinse skin with water [or
		shower].
	P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for
		several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor.
	P321	Specific treatment (see on this label).
	P362+P364	Take off contaminated clothing and wash it
		before reuse.
	P501	Dispose of contents/container in accordance
		with local/regional/national/international
		regulations.
[.] 2.3 Other hazards		r og alation of
• Results of PBT and vPvB as	sassmant	
· PBT:	Not applicable.	

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- **Description:** Mixture consisting of the following components.

Polyoxypropylentriamin	25-50%
Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312	
Polyoxypropylenediamine Skin Corr. 1B, H314; Aquatic Chronic 3, H412	25-50%
Diisopropylnaphthalin-Isomere Asp. Tox. 1, H304; Aquatic Chronic 2, H411	<i>≥</i> 2.5-<10%
polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	<i>≥</i> 1-<3%
3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	<i>≥</i> 2.5-<3%
2-methylpentane-1,5-diamine Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	<i>≥</i> 1-<1.5%
	 Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312 Polyoxypropylenediamine Skin Corr. 1B, H314; Aquatic Chronic 3, H412 Diisopropylnaphthalin-Isomere Asp. Tox. 1, H304; Aquatic Chronic 2, H411 polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317 3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 2-methylpentane-1,5-diamine Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute



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CAS: 13822-56-5	3-(trimethoxysilyl)propylamine	<i>≥</i> 0.1-<1%
EINECS: 237-511-5	Skin Corr. 1C, H314; Acute Tox. 4, H302; Skin Sens. 1A, H317	
CAS: 61788-44-1 EINECS: 262-975-0	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid	<i>≥</i> 0.25-<0.5%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
· 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

General information	Instantly remove any clothing soiled by the product.
	Symptoms of poisoning may even occur after several hours;
	therefore medical observation for at least 48 hours after the
	accident.
· After inhalation	Supply fresh air and call for doctor for safety reasons.
	In case of unconsciousness bring patient into stable side position for transport.
· After skin contact	Instantly wash with water and soap and rinse thoroughly.
	Instantly rinse with water.
· 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.
	Instantly call for doctor.
	Drink copious amounts of water and provide fresh air. Instantly call
	for doctor.
• 4.2 Most important symptoms	5
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 Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for firefighters • Protective equipment:
- No special measures required.

No further relevant information available.

- **SECTION 6: Accidental release measures**
- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.



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6.2 Environmental	
precautions:	No special measures required.
6.3 Methods and material for	, , ,
containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.
	Dispose of contaminated material as waste according to item 13. 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. See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe	
handling	Store in cool, dry place in tightly closed containers.
-	Open and handle container with care.
 Information about protection 	
against explosions and fires:	No special measures required.
 7.2 Conditions for safe storag Storage 	e, including any incompatibilities
· Requirements to be met by	
storerooms and containers:	No special requirements.
 Information about storage in 	
ana aamman ataraga faailituu	Not required

one common storage facility: Not required. • Further information about

storage conditions: Keep container tightly sealed. 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters Additional information about

design of technical systems: No further data; see item 7. · 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			
39423-51-	39423-51-3 Polyoxypropylentriamin		
Inhalative	DNEL	14 mg/m³ (ArL)	
9046-10-0	9046-10-0 Polyoxypropylenediamine		
Oral	DNEL	0.04 mg/kg bw/Tag (ArL)	
Dermal	DNEL	2.5 mg/kg bw/day (ArL)	
2855-13-2	2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine		
Oral	DNEL	0.526 mg/kg bw/Tag (ArL)	
Inhalative	DNEL	20.1 mg/m³ (ArL)	
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15520-	10-2 2-me	thylpentan	e-1,5-diamine (Contd. of page
Derma		• •	bw/day (ArL)
Inhalative DNEL 0.25 mg/m³ (A			
		-	
PNEC	 S		
		oxypropyle	ntriamin
	-		atment Plant)
		ng/l (Mew)	,
	0.0044 mg		
PNEC	-	kg dwt (Bod	()
	-	kg dwt (Sed	
	-		h water sediment)
9046-1	-	xypropylen	•
	-		atment Plant)
		l (Fresh wat	,
PNEC	-	, g/kg dwt (Bo	
	-	kg dwt (Sed	
	0.132 mg/	kg dwt (Fres	sh water sediment)
2855-1	3-2 3-amii	nomethyl-3,	5,5-trimethylcyclohexylamine
PNEC	0.006 mg/	(Mew)	
	0.06 mg/l	(Suw)	
PNEC	0.578 mg/	′kg dwt (Sed	liment)
	5.784 mg/kg dwt (Fresh water sediment)		
		• •	e-1,5-diamine
PNEC	0.042 mg/	(Mew)	
	0.42 mg/l	. ,	
·Additi	onal infori	nation:	The lists that were valid during the compilation were used as bas
· Persoi · Genera	al protecti	tive equipm ve and	
	nic measur		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:		nds:	Protective gloves. Selection of the glove material on consideration of the penetrati times, rates of diffusion and the degradation After use of gloves apply skin-cleaning agents and skin cosmetic.
	al of glove		The selection of the suitable gloves does not only depend on t material, but also on further marks of quality and varies fro manufacturer to manufacturer. As the product is a preparation several substances, the resistance of the glove material can not calculated in advance and has therefore to be checked prior to t application.
materi	ration time al	: or grove	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. (Contd. on page



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· Eye protection:

· Body protection:

Safety glasses Tightly sealed safety glasses. Protective work clothing.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and c • General Information	hemical properties
· Appearance:	
Form:	Fluid
Colour:	Whitish
· Smell:	Characteristic
· pH-value:	Not applicable.
 Change in condition Melting point/freezing point: Initial boiling point and boiling range: 	Not determined Not determined
· Flash point:	> 150 °C
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Density at 20 °C	1.08 g/cm³
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / 	No further relevant information available.
conditions to be avoided: 10.3 Possibility of hazardous	No decomposition if used according to specifications.
reactions	No dangerous reactions known
 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

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects Harmful if swallowed.

· Acute toxicity

Oral

- · LD/LC50 values that are relevant for classification:
- 39423-51-3 Polyoxypropylentriamin

LD50 550 mg/kg (rat)

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Dermal	LD50	>1000 mg/kg (rat) (Contd. of page	
9046-10-0 Polyoxypropylenediamine			
Oral	LD50	2855 mg/kg (Rat)	
Dermal	LD50	2980 mg/kg (Kan)	
38640-62-	•9 Diisopropylnap	hthalin-Isomere	
Oral	LD50	>4000 mg/kg (rat)	
Dermal	LD50	>4000 mg/kg (rat)	
Inhalative	LC50 OECD 403	>5.6 mg/l (rat)	
2855-13-2	3-aminomethyl-3	3,5,5-trimethylcyclohexylamine	
Oral	LD50	1030 mg/kg (rat)	
	NOAEL	250 mg/kg (rat)	
Dermal	LD50	1840 mg/kg (rabbit)	
		>2000 mg/kg (rat)	
15520-10-	2 2-methylpentar	ne-1,5-diamine	
Oral	LD50	1170 mg/kg (rat)	
Dermal	LD50	1870 mg/kg (rabbit)	
Inhalative	LC50/4 h	19.6 mg/l (rat)	
Skin corr Serious e Respirato sensitisa	ory or skin	Causes severe skin burns and eye damage. ion Causes serious eye damage. May cause an allergic skin reaction. formation:	
		y, mutagenicity and toxicity for reproduction)	
	I mutagenicity	Based on available data, the classification criteria are not met.	
Carcinog		Based on available data, the classification criteria are not met.	
	ctive toxicity gle exposure	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.	
	eated exposure	Based on available data, the classification criteria are not met.	
Aspiratio		Based on available data, the classification criteria are not met.	

SECTION 12: Ecological information

	12.1	Тох	cicity	
	Λαιι	otic	tovicit	

· Aquatic to	· Aquatic toxicity:		
39423-51-3	3 Polyoxypropylentriamin		
LC50/96h	>100 mg/l (Oncorhynchus mykiss)		
EC50/48h	13 mg/l (Daphnia magna)		
ErC50/72h	2h 4.4 mg/l (algae)		
38640-62-9	9 Diisopropylnaphthalin-Isomere		
EC50/72h	0.15 mg/l (algae)		
LC50/48h	1.7 mg/l (Daphnia magna)		
EC50/48h	0.16 mg/l (Daphnia magna)		
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2055 42 2 2		(Contd. of page	
		5,5-trimethylcyclohexylamine	
	110 mg/l (Leucidus idus)		
EC50	1120 mg/l (Pseudomonas putida)		
EC50/48h	23 mg/l (Daphnia magna)		
NOEC	1.5 mg/l (Desmodesmus subspicatus)		
	3 mg/l (Daphnia m	agna)	
ErC50/72h	>50 mg/l (Desmodesmus subspicatus)		
15520-10-2	2-methylpentane-	-1,5-diamine	
EC50/72h	>100 mg/l (algae)		
EC50	1825 mg/l (fish)		
EC50/48h	19.8 mg/l (Daphnia magna)		
12.2 Persis	tence and		
degradabili		No further relevant information available.	
12.3 Bioaco	cumulative	No firstbar valor and information available	
potential	6. in il	No further relevant information available.	
12.4 Mobilit		No further relevant information available.	
 Additional ecological informative General notes: 		Must not reach sewage water or drainage ditch undiluted unneutralised.	
		Danger to drinking water if even extremely small quantities le into soil.	
12.5 Result	s of PBT and vPv	B assessment	
PBT:		Not applicable.	
· vPvB:		Not applicable.	
• 12.6 Other a	adverse effects	No further relevant information available.	

SECTION 13: Disposal considerations

 13.1 Waste treatment method Recommendation 	s Must not be disposed of together with household garbage. Do not
Recommendation	allow product to reach sewage system.
· Waste disposal key number:	55352
, ,	Bez.: aliphatische Amine
	Entsorgungshinweise:
	Sonderabfallverbrennung
· Uncleaned packagings:	
· Recommendation:	Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA

UN2735

· 14.2 UN proper shipping name

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400	(Contd. of page
ADR	AMINES, LIQUID, CORROSIVE, N.O.S (Polyoxypropylentriamin Polyoxypropylenediamine), ENVIRONMENTALL HAZARDOUS
IMDG	AMINES, LIQUID, CORROSIVE, N.O.S (Polyoxypropylentriamin
ΙΑΤΑ	Polyoxypropylenediamine), MARINE POLLUTAN AMINES, LIQUID, CORROSIVE, N.O.S (Polyoxypropropylentriamin Polyoxypropylenediamine)
14.3 Transport hazard class(es)	
ADR Class Label	8 (C7) Corrosive substances. 8
IMDG, IATA Class Label	8 Corrosive substances. 8
14.4 Packing group ADR, IMDG, IATA	11
14.5 Environmental hazards:	Product contains environmentally hazardou substances: Polyoxypropylentriamin
Marine pollutant: Special marking (ADR):	Yes Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Kemler Number: EMS Number: Segregation groups Stowage Category Segregation Code	Warning: Corrosive substances. 80 F-A, S-B Alkalis A SG35 Stow "separated from" SGG1-acids
14.7 Transport in bulk according to A of Marpol and the IBC Code	Annex II Not applicable.
Transport/Additional information:	
<i>ADR Limited quantities (LQ) Excepted quantities (EQ)</i>	
Limited quantities (LQ)	
<i>Limited quantities (LQ) Excepted quantities (EQ) Transport category</i>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 n 2



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POLYOXYPROPYLENEDIAMINE), 8, 11, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lowertier requirements
- tier requirements200 tQualifying quantity (tonnes)for the application of upper-tier requirements500 t15.2 Chemical safetyassessment:A Che
 - A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information · Relevant phrases H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. · 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 (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 - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B (Contd. on page 11) GB



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	(Contd. of page 10) Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
	Skin Sens. 1: Skin sensitisation – Category 1
	Skin Sens. 1A: Skin sensitisation – Category 1A
	Skin Sens. 1B: Skin sensitisation – Category 1B
	Asp. Tox. 1: Aspiration hazard – Category 1
	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
* Data compared to the	
previous version altered.	