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Safety data sheet according to UK REACH

Printing date 14.04.2025

Version number 44 (replaces version 43)

Revision: 14.04.2025

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier	
· Trade name	Nafuflex High Performance - Komponente A
 Article number: 1.2 Relevant identified uses of the substance or mixture 	2166
and uses advised against • Application of the substance	
/ the mixture	Bitumen high build coating
• 1.3 Details of the supplier of • Manufacturer/Supplier:	the safety data sheet 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: 1.4 Emergency telephone number: 	msds@mc-bauchemie.de Tel.: +49 / (0)700 24112112 (MCR)
	Tel.: +1 872 5888271 (MCR)
SECTION 2: Hazards ide	entification
2.1 Classification of the subs Classification according to R	

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

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms



- · Signal word
- Hazard-determining components of labelling:

2-Methyl-2H-isothiazol-3-one 2-Octyl-2H-isothiazol-3-on 1,2-benzisothiazol-3(2H)-one H317 May cause an allergic skin reaction.

Hazard statements

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	(Contd. of page 1)
· Precautionary statements	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
-	P280 Wear protective gloves.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
	P321 Specific treatment (see on this label).
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
• Additional information:	Contains biocidal products: 1,2-benzisothiazol-3(2H)-one, 2-
	Methyl-2H-isothiazol-3-one, 2-Octyl-2H-isothiazol-3-on
· 2.3 Other hazards	
Results of PBT and vPvB as	sessment

- of PBT and VH sment
- · PBT: Not applicable. Not applicable.
- · vPvB:

3.2 Mixtures Description:	Mixture consisting of the following components.	
Dangerous components:		
CAS: 8052-42-4 EINECS: 232-490-9	Bitumen substance with a Community workplace exposure limit	30-60%
CAS: 39464-69-2	Poly(oxy-1,2-ethanediyl),alpha-9-octadecenyl omega-hydroxy-,(Z)-, phosphate Eye Dam. 1, H318; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	<0.25%
CAS: 1219010-04-4 Reg.nr.: 01-2119487014-41	N-C16-18 (even numbered) and C18 (unsaturated) alkylpropane-1,3-diamine STOT RE 1, H372; Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302	<0.025%



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		(Contd. of page 2)
CAS: 2634-33-5 EINECS: 220-120-9	1,2-benzisothiazol-3(2H)-one Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317:C ≥ 0.05 %	<0.025%
CAS: 2682-20-4 EINECS: 220-239-6	2-Methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A;H317: C ≥ 0.0015 %	<i>≥</i> 0.0015-<0.025%
CAS: 13463-41-7 EINECS: 236-671-3	Pyrithione zinc Acute Tox. 3, H301; Acute Tox. 2, H330; Repr. 1B, H360D; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=10) ATE: LD50 oral: 221 mg/kg LC50/4 h inhalative: 0.14 mg/l	<i>≥</i> 0.0025-<0.025%
CAS: 26530-20-1 EINECS: 247-761-7	2-Octyl-2H-isothiazol-3-on Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1, H314; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 ATE: LD50 oral: 125 mg/kg LD50 dermal: 311 mg/kg LC50/4 h inhalative: 0.27 mg/l Specific concentration limit: Skin Sens. 1A;H317: $C \ge 0.0015$ %	≥0.0015-<0.0025%
· Additional information	For the wording of the listed hazard phrases re	efer to section 16.

SECTION 4: First aid measures

· General information	For all first aid measures: observe self-protection and consult a
	doctor!
· After inhalation	Take the person out into the fresh air.
· After skin contact	Remove heavily soiled clothing.
	Clean with plenty of water.
	Do not use thinner or similar.
· After eye contact	Rinse for 10 minutes under running water with the eyelids open or
	use eye rinsing solution. Always consult an ophthalmologist!
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· After swallowing

Do not induce vomiting, do not give anything to drink.

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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 6.2 Environmental	Not required.
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).
• 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	No special measures required. No special precautions necessary if used correctly.
 Storage Requirements to be met by 	ge, including any incompatibilities
storerooms and containers:	Store frost-free. Protect powder products from moisture and water. Only store in the original container or in containers recommended by the manufacturer. After decanting, label containers as original containers. Store containers tightly closed in a well-ventilated and well-lit room. Access only for specialised personnel. Do not store in break rooms, recreation rooms or sanitary facilities as well as in stairwells, corridors, escape and rescue routes, (Contd. on page 5)



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according to UK REACH Printing date 14.04.2025 Version number 44 (replaces version 43) Revision: 14.04.2025 Trade name Nafuflex High Performance - Komponente A (Contd. of page 4) passages, passageways and confined spaces. · Further information about storage conditions: None. Storage class 12 **SECTION 8: Exposure controls/personal protection** · 8.1 Control parameters • Components with critical values that require monitoring at the workplace: CAS: 8052-42-4 Bitumen WEL Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ Additional information: The lists that were valid during the compilation were used as basis. · 8.2 Exposure controls · Appropriate engineering No further data: see section 7. controls · Individual protection measures, such as personal protective equipment

· General protective and Do not store food, eat, drink, sniff or smoke in the work area! hygienic measures Avoid contact with eyes, skin and clothing! Apply skin protection ointment as a preventive measure to facilitate skin cleansing. Remove product residues from the skin! Only remove dried bitumen from the skin with a suitable cleanser (special skin cleansers, margarine or vegetable oil are also suitable). Never use solvents or diesel to clean the skin. Clean hands thoroughly after work and before breaks! Use skin care products after work (moisturising cream). Wear closed work clothing during work. Change clothes at the end of work! Particle filters P2 are recommended when using the spraying · Breathing equipment: method (with strong aerosol formation). Gloves made of: Nitrile rubber. · Hand protection (Category 3 chemical protective gloves, recognisable by the CE mark with four-digit test number). Cotton undergloves are recommended when wearing protective gloves. Can be used as splash protection: Nitrile-soaked cotton gloves. Suitable glove brands have been identified for work with bitumen emulsions: Best: Nitri-Solve 730 KCL: Camatril Velours 730 · Material of gloves · Penetration time of glove material The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed. · Eye/face protection If there is a risk of splashing: frame goggles.

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Body protection:
 Skin protection

(Contd. of page 5) For spraying processes: Disposable protective suit. Use fat-free or low-fat (oil-in-water emulsion) skin protection ointment for all uncovered parts of the body!

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chem	ical properties	
· General Information		
· Colour:	Dark brown	
· Smell:	Fish-like	
 Melting point/freezing point: 	Not determined	
Boiling point or initial boiling point and		
boiling range	100 °C (CAS: 7732-18-5 Water)	
· Flash point:	Not applicable	
· pH at 20 °C	8.75	
· Viscosity:		
· Kinematic viscosity	Not determined.	
· dynamic at 20 °C:	33000 mPas	
· Solubility		
· Water:	Fully miscible	
· Steam pressure at 20 °C:	23 hPa (CAS: 7732-18-5 Water)	
· Density and/or relative density	````	
· Density at 20 °C	0.7 g/cm³	
· 9.2 Other information		
· Appearance:		
Form:	Viscous	
· Important information on protection of healt	th	
and environment, and on safety.		
Self-inflammability:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive.	
· Information with regard to physical hazar	rd	
classes		
· Explosives	Void	
Flammable gases	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	
	(Contd. on pag	e 7)



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		(Contd. of page 6)
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
 Desensitised explosives 	Void	

SECTION 10: Stability and reactivity

10.1 Reactivity
 10.2 Chemical stability

No further relevant information available.

• 10.2 Chemical stability • Thermal decomposition /	
conditions to be avoided:	No decomposition if used according to specifications.
 10.3 Possibility of hazardous 	
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 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:

· LD/LC50	values tha	it are relevant for classification:
CAS: 805	2-42-4 Bit	umen
Dermal	LD50	>2000 mg/kg (rabbit)
	NOAEL	2000 mg/kg (rabbit)
Inhalative	NOAEL	103.9 mg/l (rat)
CAS: 121	9010-04-4	N-C16-18 (even numbered) and C18 (unsaturated) alkylpropane-1,3- diamine
Oral	LD50	500 mg/kg (rat)
	NOAEL	0.4 mg/kg (rat)
CAS: 263	4-33-5 1,2	-benzisothiazol-3(2H)-one
Oral	LD50	1020 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
CAS: 268	2-20-4 2-N	lethyl-2H-isothiazol-3-one
Oral	LD50	50-300 mg/kg (rat)
Inhalative	LC50/4 h	0.11 mg/l (rat)
CAS: 134	63-41-7 Pj	vrithione zinc
Oral	LD50	221 mg/kg (ATE)
Inhalative	LC50/4 h	0.14 mg/l (ATE)
		(Contd. on page



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		(Contd. of page
CAS: 265	30-20-1 2-0	Octyl-2H-isothiazol-3-on
Oral	LD50	125 mg/kg (ATE)
		500 mg/kg (rat)
Dermal	LD50	311 mg/kg (ATE)
		>2000 mg/kg (rat)
Inhalative	LC50/4 h	0.27 mg/l (ATE)
	2000, 111	0.6 mg/l (rat)
sensitisat Germ cell Carcinog Reproduc STOT-sin	l mutageni	May cause an allergic skin reaction.icityBased on available data, the classification criteria are not met.Based on available data, the classification criteria are not met.ityBased on available data, the classification criteria are not met.ureBased on available data, the classification criteria are not met.
Aspiratio	n hazard	Based on available data, the classification criteria are not met.
11.2 11101		
	e disruptir	ng properties

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic to	vioity:
· Aquatic to	-
CAS: 8052	2-42-4 Bitumen
EC50/72h	>1000 mg/l (algae)
LC50/96h	0.002 mg/l (Coregonus clupeaformis)
	>1000 mg/l (fish)
EC50	0.062 mg/l (Gammarus pseudolimnaeus)
LC50/48h	>1000 mg/l (Daphnien)
NOEC	>1000 mg/l (Daphnien)
CAS: 1219	9010-04-4 N-C16-18 (even numbered) and C18 (unsaturated) alkylpropane-1,3-
	diamine
LC50/24h	0.148 mg/l (fish)
EC50	0.29 mg/l (Daphnia magna)
NOEC	>0.01 mg/l (algae)
CAS: 2634	4-33-5 1,2-benzisothiazol-3(2H)-one
EC50/72h	0.067 mg/l (Pseudokirchneriella subcapitata)
	0.11 mg/l (Selenastrum capricornutum)
LC50/96h	1.6 mg/l (Oncorhynchus mykiss)
·	(Contd. on page 9)



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EC50/48h 1.1 mg/l (Daphnia magna) CAS: 2682-20-4 2-Methyl-2H-isothiazol-3-one EC50/72h 0.157 mg/l (Pseudokirchneriella subcapitata) LC50/96h 6 mg/l (Oncorhynchus mykiss) EC50/48h 1.68 mg/l (Daphnies) CAS: 13463-41-7 Pyrithione zinc IC50/72h 0.067 mg/l (Selenastrum capricornutum) LC50/96h 0.15 mg/l (Oncorhynchus mykiss) EC50/48h 0.067 mg/l (Daphnies) CAS: 26530-20-1 2-Octyl-2H-isothiazol-3-on EC50/48h 0.42 mg/l (Daphnien) *12.2 Persistence and degradability No further relevant information available. *12.3 Bioaccumulative potential No further relevant information available. *12.4 Mobility in soil No further relevant information available. *12.5 Results of PBT and vPvB assessment PBT: *VPB: Not applicable. *vPvB: Not applicable. *12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. *12.7 Other adverse effects Harmful to fish *Additional ecological information: General notes:			(Contd. of page 8)		
EC50/72h 0.157 mg/l (Pseudokirchneriella subcapitata) LC50/96h 6 mg/l (Oncorhynchus mykiss) EC50/48h 1.68 mg/l (Daphnies) CAS: 13463-41-7 Pyrithione zinc IC50/72h 0.067 mg/l (Selenastrum capricornutum) LC50/96h 0.15 mg/l (Oncorhynchus mykiss) EC50/48h 0.05 mg/l (Daphnies) CAS: 26530-20-1 2-Octyl-2H-isothiazol-3-on EC50/48h 0.42 mg/l (Daphnien) • 12.2 Persistence and degradability No further relevant information available. • 12.3 Bioaccumulative potential No further relevant information available. • 12.4 Mobility in soil No further relevant information available. • 12.5 Results of PBT and vPvB assessment PBT: • Not applicable. Not applicable. • vPvB: Not applicable. • vPvB: Not applicable. • 12.7 Other adverse effects Harmful to fish • Additional ecological information: General notes:		• • •			
LC50/96h 6 mg/l (Oncorhynchus mykiss) EC50/48h 1.68 mg/l (Daphnies) CAS: 13463-41-7 Pyrithione zinc IC50/72h 0.067 mg/l (Selenastrum capricornutum) LC50/96h 0.15 mg/l (Oncorhynchus mykiss) EC50/48h 0.05 mg/l (Daphnies) CAS: 26530-20-1 2-Octyl-2H-isothiazol-3-on EC50/48h 0.42 mg/l (Daphnies) CAS: 26530-20-1 2-Octyl-2H-isothiazol-3-on EC50/48h 0.42 mg/l (Daphnien) 12.2 Persistence and degradability degradability No further relevant information available. 12.3 Bioaccumulative potential potential No further relevant information available. 12.5 Results of PBT and vPvB assessment PBT: PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable. 12.7 Other adverse effects The product does not contain substances with endocrine disrupting properties. 12.7 Other adverse effects Harmful to fish Additional ecological information: General notes: Harmful to aquatic organisms Danger to drinking water if even extremely small quantities leak	CAS: 2682	2-20-4 2-Methyl-2H-i	sothiazol-3-one		
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IC50/72h 0.067 mg/l (Selenastrum capricornutum) LC50/96h 0.15 mg/l (Oncorhynchus mykiss) EC50/48h 0.05 mg/l (Daphnies) CAS: 26530-20-1 2-Octyl-2H-isothiazol-3-on EC50/48h 0.42 mg/l (Daphnien) 12.2 Persistence and degradability No further relevant information available. 12.3 Bioaccumulative No further relevant information available. potential No further relevant information available. 12.5 Results of PBT and vPvB assessment Not applicable. vPvB: Not applicable. vPvB: Not applicable. vPvB: Not applicable. 12.7 Other adverse effects The product does not contain substances with endocrine disrupting properties. 12.7 Other adverse effects Harmful to fish Additional ecological information: General notes: General notes: Harmful to quatic organisms Danger to drinking water if even extremely small quantities leak	EC50/48h				
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12.4 Mobility in soilNo further relevant information available.12.5 Results of PBT and vPvB assessmentPBT:Not applicable.vPvB:Not applicable.12.6 Endocrine disrupting propertiesThe product does not contain substances with endocrine disrupting properties.12.7 Other adverse effectsHarmful to fishAdditional ecological information:Harmful to aquatic organisms Danger to drinking water if even extremely small quantities leak		ccumulative			
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• PBT: Not applicable. • vPvB: Not applicable. • 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. • 12.7 Other adverse effects Remark: • Remark: Harmful to fish • Additional ecological information: General notes: • General notes: Harmful to aquatic organisms Danger to drinking water if even extremely small quantities leak					
• vPvB: Not applicable. • 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. • 12.7 Other adverse effects Remark: • Additional ecological information: Harmful to fish • General notes: Harmful to aquatic organisms Danger to drinking water if even extremely small quantities leak		Its of PBT and vPvB			
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Additional ecological information: General notes: Harmful to aquatic organisms Danger to drinking water if even extremely small quantities leak		r adverse effects	lle met de treb		
• General notes: Harmful to aquatic organisms Danger to drinking water if even extremely small quantities leak					
Danger to drinking water if even extremely small quantities leak		•			
	· General n	otes:			
into soil.			Danger to drinking water if even extremely small quantities leak into soil.		

SECTION 13: Disposal considerations

 13.1 Waste treatment method Recommendation 	Is 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.
· Recommended cleaning agent:	Water, if necessary with cleaning agent.
	GB

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SECTION 14: Transport information	tion
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
 14.5 Environmental hazards: Marine pollutant: 	No
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk accordi IMO instruments 	ng to Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

environmental regulations/ legislation specific for the substance or mixture Poisons Act	or the		
Regulated explosives precu	irsors		
None of the ingredients is liste	ed.		
Regulated poisons			
None of the ingredients is liste	ed.		
Reportable explosives prec	ursors		
None of the ingredients is liste	ed.		
Reportable poisons			
CAS: 1310-73-2 Sodium hyd	roxide	12% of total caustic alkalinity	
15.2 Chemical safety assessment:	A Chemical Safety Assessme	nt has not been carried out.	

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(Contd. of page 10) SECTION 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. · Relevant phrases H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic 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. H330 Fatal if inhaled. H360D May damage the unborn child. Causes damage to organs through prolonged or repeated H372 exposure. H400 Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. H410 Harmful to aquatic life with long lasting effects. H412 EUH071 Corrosive to the respiratory tract. 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity - Category 2 Skin Corr. 1: Skin corrosion/irritation – Category 1 Skin Corr. 1B: Skin corrosion/irritation – Category 1B 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 Repr. 1B: Reproductive toxicity - Category 1B STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard -Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 (Contd. on page 12) GB



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(Contd. of page 11) Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

• * Data compared to the previous version altered.

GB