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

Printing date 23.06.2023

Version number 6 (replaces version 5)

Revision: 23.06.2023

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

- · 1.1 Product identifier
- · Trade name: TRW DOT 4 Brake Fluid ESP
- Article number: 32960005, 32960005.Z, PFB440, PFB445, PFB620DR, PFB440CE, PFB440SE, PFB440RE, PFB445CE, PFB445SE, PFB445RE, PFB620DRAE, PDF440AP, PFB444TC, PFB440IR
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture Brake fluid
- · 1.3 Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* ZF Aftermarket UK Ltd. Abbeyfield Road Lenton Nottingham, NG7 2SX Tel +44 333 240 1123 Fax +44 115 986 92 61 https://www.zf.com
- *Informing department:* Phone: +49 (0) 7541 77 0

E-Mail adress of the competent person for the safety data sheet: reach@dekra.com

• **1.4 Emergency telephone number:** Poison Information Center Munich Phone: +49 (0) 89 - 19 240 Information in German and English

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



Repr. 2 H361 Suspected of damaging fertility or the unborn child.

- · 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 Warning

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Trade name: TRW DOT 4 Brake Fluid ESP

Tris[2-[2-(2 · <i>Hazard st</i> a	etermining components of labelling: 2-methoxyethoxy)ethoxy]ethyl] orthoborate atements bected of damaging fertility or the unborn child.
· Precautio	nary statements
P102	Keep out of reach of children.
P280	Wear protective gloves / eye protection / face protection.
P308+P31	3 IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other	hazards
• PBT: Not a	<i>f PBT and vPvB assessment</i> applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Mixture of the substances listed below including additives not requiring identification. Added are corrosion and oxidation inhibitors.

 Dangerous components: 		
CAS: 30989-05-0 EINECS: 250-418-4 Reg.nr.: 01-2119462824-33-X	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate Repr. 2, H361	50 - 100%
CAS: 143-22-6 EINECS: 205-592-6 Reg.nr.: 01-2119475107-38-X	2-[2-(2-butoxyethoxy)ethoxy]ethanol ♦ Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 %	≥ 10 - < 20%
CAS: 1559-34-8 EINECS: 216-322-1 Reg.nr.: 01-2120768763-41-X	3,6,9,12-tetraoxahexadecan-1-ol	≥ 0 - < 10%
CAS: 111-77-3 EINECS: 203-906-6 Reg.nr.: 01-2119475100-52-X	Dowanol DM	≥ 0 - < 3%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-X	2-(2-butoxyethoxy)ethanol	≤ 1%
· Additional information For th	e 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 contaminated by the product.
- · After inhalation Supply fresh air; consult doctor in case of symptoms.



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- After skin contact
 Wash with water and soap.
 If skin irritation continues, consult a doctor.
- After eye contact
 Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
 After swallowing
 Rinse out mouth and then drink plenty of water.
- Call a doctor immediately.
- 4.2 Most important symptoms 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
- Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture Inhalation of combustion gases may cause serious health hazards. Formation of flammable mixtures of vapours with air possible.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- Additional information Remove goods in stock from incendiary zone, if possible. Use water to keep fire exposed containers cool.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with the product.
 Ensure adequate ventilation
 Particular danger of slipping on leaked/spilled product.
 6.2 Environmental precautions:
- Prevent from spreading (e.g. by damming-in or oil barriers). Do not allow to enter drainage system, surface or ground water. • 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Dispose of contaminated material as waste according to section 13.
- 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** Prevent formation of aerosols.

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Don't eat, drink or smoke while working. Keep containers tightly sealed. Avoid contact with eyes and skin.

• Information about protection against explosions and fires: The product forms flammable fumes when heated.

• 7.2 Conditions for safe storage, including any incompatibilities

- · Storage
- Requirements to be met by storerooms and containers: Store only in the original container.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep container tightly sealed. Protect from humidity and keep away from water. Store container in a well ventilated position. Store under dry conditions.
- · 7.3 Specific end use(s) Brake fluid

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

• *Components with limit values that require monitoring at the workplace:* WEL: workplace exposure limit OEL: Occupational Exposure Limit

111-77-3 I	111-77-3 Dowanol DM			
WEL (Gre	eat Britain) Long-term value: 50.1 mg Sk		g/m³, 10 ppm	
IOELV (Eu	ropean Union)	Long-term value: 50.1 m Skin	g/m³, 10 ppm	
OEL (Irela	nd)	Long-term value: 50.1 m Sk, IOELV	g/m³, 10 ppm	
112-34-5 2	2-(2-butoxyethe	oxy)ethanol		
WEL (Gre	at Britain)	Short-term value: 101.2 r Long-term value: 67.5 m		
IOELV (Eu	ropean Union)	Short-term value: 101.2 mg/m³, 15 ppm Long-term value: 67.5 mg/m³, 10 ppm		
OEL (Ireland)		Short-term value: 101.2 r Long-term value: 67.5 m IOELV		
· DNELs				
30989-05-	0 Tris[2-[2-(2-n	nethoxyethoxy)ethoxy]e	thyl] orthoborate	
Oral	DNEL (consum	ner, long-term, systemic)	1.5 mg/kg bw/day (human)	
Dermal	DNEL (worker, long-term, systemic)		4.2 mg/kg bw/day (human)	
	DNEL (consumer, long-term, systemic)		1.5 mg/kg bw/day (human)	
Inhalative	DNEL (worker,	long-term, systemic)	14.8 mg/m ³ (human)	
DNEL (consumer, long-term, s		ner, long-term, systemic)	2.6 mg/m ³ (human)	
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143-22-6 2	2-[2-(2-butoxyethoxy)ethox	vlethanol		(Contd. from pag
Oral	DNEL (consumer, long-term		12.5 mg/kg bw/day (human)	
	3,6,9,12-tetraoxahexadeca		5 5 7 ()	
Oral	DNEL (consumer, long-term		3 mg/kg bw/day (human)	
111-77-3	Dowanol DM	,		
Oral	DNEL (consumer, long-term	, systemic)	7.5 mg/kg bw/day (human)	
Dermal	DNEL (worker, long-term, sy	/stemic)	2.22 mg/kg bw/day (human)	
	DNEL (consumer, short-terr	n, systemic)	1.33 mg/kg bw/day (human)	
Inhalative	DNEL (worker, long-term, sy	/stemic)	50.1 mg/m ³ (human)	
	DNEL (consumer, long-term	, systemic)	30.1 mg/m ³ (human)	
112-34-5 2	2-(2-butoxyethoxy)ethanol			
Oral	DNEL (consumer, long-term	, systemic)	6.25 mg/kg bw/day (human)	
Inhalative	DNEL (worker, short-term, le	ocal)	101.2 mg/m³ (human)	
	DNEL (worker, long-term, lo	cal)	67.5 mg/m³ (human)	
PNECs				
143-22-6 2	2-[2-(2-butoxyethoxy)ethox	y]ethanol		
	ia (freshwater)	2 mg/L (.)		
PNEC aqu	ia (marine water)	0.2 mg/L (.)		
PNEC ST	P - Sewage Treatment Plant	200 mg/L (.)		
PNEC soil		0.47 mg/kg		
PNEC sed	liment (freshwater)	7.7 mg/kg s	edim. dw (.)	
PNEC sediment (marine water)		0.77 mg/kg	sedim. dw (.)	
PNEC oral	I	111 mg/kg f	ood (.)	
1559-34-8	3,6,9,12-tetraoxahexadeca	n-1-ol		
PNEC aqu	ıa (freshwater)	2.5 mg/L (.)		
PNEC aqu	ia (marine water)	0.25 mg/L (.)	
PNEC soil		0.46 mg/kg	soil dw (.)	
PNEC sed	liment (freshwater)	9.49 mg/kg	sedim. dw (.)	
PNEC sed	liment (marine water)	0.95 mg/kg	sedim. dw (.)	
111-77-3 [Dowanol DM			
PNEC aqu	ıa (freshwater)	12 mg/L (.)		
PNEC aqua (marine water)		1.2 mg/L (.)		
PNEC STP - Sewage Treatment Plant		10,000 mg/l	_ (.)	
PNEC soil		2.1 mg/kg s	oil dw (.)	
PNEC sediment (freshwater)			sedim. dw (.)	
			sedim. dw (.)	
· · · · · · · · · · · · · · · · · · ·		12 mg/L (.)		
PNEC oral 90 mg/kg food (.)				
	2-(2-butoxyethoxy)ethanol			
•	ia (freshwater)	1.1 mg/L (.)		
PNEC aqu	ia (marine water)	0.11 mg/L (.)	



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PNEC soil	0.32 mg/kg soil dw (.)
PNEC sediment (freshwater)	4.4 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.44 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	11 mg/L (.)
PNEC oral	56 mg/kg food (.)
 Additional information: The lists the 	at were valid during the compilation were used as basis.
 General protective and hygienic m Take off all contaminated clothing im Wash hands during breaks and at the Avoid contact with the eyes. Do not eat or drink while working. Breathing equipment: Not necessary if room is well-ventilat Use breathing protection only when a Filter A/P2. Hand protection Use gloves of stab Material of gloves The selection of the suitable gloves of quality and varies from manufacturer substances, the resistance of the glo checked prior to the application. Butyl rubber, BR Nitrile rubber, NBR Recommended thickness of the mate 	e end of the work. ed. aerosol or mist is formed. le material (i.e. nitril rubber). does not only depend on the material, but also on further marks of to manufacturer. As the product is a preparation of several we material can not be calculated in advance and has therefore to be erial: ≥ 0.4 mm

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical · General Information 	properties	
· Colour:	Amber coloured	
· Odour:	Mild	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	< -50 °C (SAE J 1703)	
Boiling point or initial boiling point and boiling	· · · · · ·	
range	> 260 °C (SAE J 1703)	
· Flammability	Not applicable.	
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Lower and upper explosion limit		
Lower:	Not determined.	
Flash point:	> 120 °C (IP 35)	
Auto-ignition temperature:	> 300 °C (ASTM D 286)	
Decomposition temperature:	> 300 °C	
SADT		
pH at 20 °C	7 - 10.5 (SAE J 1703)	
Viscosity:		
Kinematic viscosity at 20 °C	10 mm²/s (ASTM D 445)	
dynamic:	Not determined.	
Solubility		
Water:	Fully miscible	
Partition coefficient n-octanol/water (log value		
Vapour pressure at 20 °C:		
Density and/or relative density		
Density at 20 °C	1.02 - 1.07 g/cm³ (DIN 51757)	
•	G (- C)	
9.2 Other information		
Appearance:	-	
Form:	Fluid	
Important information on protection of health		
and environment, and on safety.	— • • • • • • • • •	
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard		
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 flammal		
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
	Void	
Organic peroxides Corrosive to metals	Void	
Desensitised explosives	Void	

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SECTION 10: Stability and reactivity

- 10.1 Reactivity 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 Possible formation of peroxide
- Reacts with light alloys to form hydrogen
- 10.4 Conditions to avoid Heat.
 10.5 Incompatible materials: Avoid contact with strong oxidizing agents. Can attack paints and coatings as well as some platics and rubber.
- **10.6 Hazardous decomposition products:** None in case of intended use and storage in compliance with instructions.

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.

		a that are relevant for classification: [2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate
Oral		> 2,000 mg/kg (rat) (OECD 401)
		> 2,000 mg/kg (rat) (OECD 402)
		-butoxyethoxy)ethoxy]ethanol
Oral	LD50	5,170 mg/kg (rat)
Dermal	LD50	3,540 mg/kg (rabbit)
1559-34-8	3 3,6,9,	12-tetraoxahexadecan-1-ol
Oral	LD50	2,630 mg/kg (rat)
Dermal	LD50	3,540 mg/kg (rabbit)
111-77-3	Dowan	IOI DM
Oral	LD50	7,128 mg/kg (mouse) (OECD 201)
Dermal	LD50	9,404 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	> 1.2 mg/l/6h (rat) (OECD 403)
112-34-5	2-(2-bu	itoxyethoxy)ethanol
Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	2,764 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	67.5 mg/l/0.5h (human)

- · Serious eye damage/irritation Splashes can cause temporary eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity

Suspected of damaging fertility or the unborn child.

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- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:

· Repeated	· Repeated dose toxicity		
143-22-6 2	143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Oral	NOAEL (90d)	500 mg/kg bw/day (rat)	
111-77-3	Dowanol DM		
Oral	NOAEL (28d)	900 mg/kg bw/day (rat) (OECD 407)	
Dermal	NOAEL (90d)	40 mg/kg bw/day (guinea pig) (OECD 411)	
Inhalative	NOAEC (90d)	> 1,060 mg/m ³ (rat) (OECD 413)	
112-34-5 2	2-(2-butoxyeth	oxy)ethanol	
Oral	NOAEL (90d)	250 mg/kg bw/day (rat) (OECD 408)	
Dermal	NOAEL (90d)	2,000 mg/kg bw/day (rat) (OECD 411)	
Inhalative	NOAEC (90d)	94 mg/m ³ (rat) (OECD 413)	
		Vapour	
	CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)		
	Repr. 2		
	• 11.2 Information on other hazards		

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxic	ity:	
30989-05-0 Tr	is[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	
EC50	> 211.2 mg/l/48h (Daphnia magna) (OECD 202)	
LC50	> 222.2 mg/l/96h (Oncorhynchus mykiss) (OECD 203)	
EC50	> 224.4 mg/l/72h (Raphidocelis subcapitata) (OECD 201)	
143-22-6 2-[2-	(2-butoxyethoxy)ethoxy]ethanol	
EC50 (static)	2,210 mg/l/48h (Daphnia magna) (EU C.2)	
EC0 (static)	2,150 mg/l/96h (fish) (DIN 38 412-L15)	
LC50	2,400 mg/l/96h (Pimephales promelas)	
	2,200 - 4,600 mg/l/96h (fish) (DIN 38412-15)	
EC50 (static)	840 mg/l/72h (Desmodesmus subspicatus) (OECD 201)	
NOEC (static)	1,000 mg/l/96h (fish) (DIN 38 412-L15)	
1559-34-8 3,6,	9,12-tetraoxahexadecan-1-ol	
EC50	> 3,200 mg/l/48h (Daphnia magna) (OECD 202)	
LC50	> 1,800 mg/l/96h (Scophthalmus maximus) (OECD 203)	
111-77-3 Dow	anol DM	
EC50 (static)	1,192 mg/l/48h (Daphnia magna)	
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EC50 (static)	> 1,000 mg/l/96h (Selenastrum capricornutum) (OECD 201)
LC50 (static)	5,741 mg/l/96h (Pimephales promelas)
112-34-5 2-(2-	butoxyethoxy)ethanol
EC50 (static)	> 100 mg/l/48h (Daphnia magna) (OECD 202)
EC50 (static)	> 100 mg/l/96h (Desmodesmus subspicatus) (OECD 201)
LC50 (static)	1,300 mg/l/96h (Lepomis macrochirus) (OECD 203)
 12.3 Bioaccur Due to the dist 12.4 Mobility 12.5 Results of 	ation: There are no data available about the preparation. mulative potential tribution coefficient n-octanol/water an accumulation in organisms is not expected. in soil No further relevant information available. of PBT and vPvB assessment inches
	blicable. The disrupting properties Des not contain substances with endocrine disrupting properties.
	ological information:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The waste code numbers mentioned are recommendations based on the probable use of the product.

· Europear	· European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 01 00	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)	
16 01 13*	brake fluids	
HP10	Toxic for reproduction	

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

Dispose of packaging according to regulations on the disposal of packagings.

Non contaminated packagings can be used for recycling.

Cleaned packing materials have to be admitted to local recycling circuits.

· Recommended cleaning agent: Water, if necessary with cleaning agent.

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SECTION 14: Transport information

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

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Chemical safety assessment
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

National regulations

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.

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H361d Suspected of damaging the unborn child.

· Department issuing data specification sheet:

DEKRA This Safety Data Sheet has been drawn up in cooperation with: DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany, phone: (+49) 511 42079 - 0, reach@dekra.com.

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Abbreviations and acronyms: 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 (UK REACH) PNEC: Predicted No-Effect Concentration (ÚK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Eve Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Repr. 2: Reproductive toxicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 • * Data compared to the previous version altered.