

Revision nr. 3

Dated 14/11/2022

BRAKE FLUID DOT3 (403403)

Printed on 30/11/2022

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			Replaced revision:2 (Printed on: 22/02/2022)
	L		I
	Safety Da	ta Sheet	
Acco	ording to Annex II to REACH - Regulation		K REACH
SECTION 1. Identification	n of the substance/mixture a	and of the company/u	ndertaking
1.1. Product identifier Product name	BRAKE FLUID DOT	3 - 403403	
	e substance or mixture and uses advis KE FLUID DOT 3 (for B2C)	sed against	
Identified Uses	Industrial	Professional	Consumer
Functional Fluids	4	v	<i>\$</i>
1.3. Details of the supplier of the s Name	afety data sheet Valeo Service UK Li	mited	
Full address	53 Heming Road, W		
District and Country	Redditch, Worceste	rshire, B98 0DZ	
	ENGLAND		
	Tel. +44 1527 838 30	00	
	Fax +44 1527 523 73	32	
e-mail address of the competent per	son		
responsible for the Safety Data Shee	et vsa.uk.technical.ma	ilbox@valeo.com	
1.4. Emergency telephone number		Pusinasa Haura)	
For urgent inquiries refer to	(+44 1527 838 300)(E 999 (emergency 24h		
		,	
SECTION 2. Hazards ider	ntification		
2.1. Classification of the substance	or mixture		
		· (EQ) D	
	es a safety datasheet that complies with		(CLP) (and subsequent amendments and on 2020/878.
	the risks for health and/or the environme		
Hazard classification and indication: Acute toxicity, category 4	H302	Harmful if swallowed	
Serious eye damage, category 1	H318	Causes serious eye	
		- ,	-
2.2. Label elements			

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lazard labelling pursuant to	EC Regulation 1272/2008 (CLP) and subsequent amendments and supplemer	nts.
Hazard pictograms:			
Signal words:	Danger		
Hazard statements:			
H302 H318	Harmful if swallowed. Causes serious eye damag	e.	
Precautionary statements:			
P501		ner in accordance with local/regional/national/international	ational regulations.
P102 P305+P351+P338	Keep out of reach of childre IF IN EYES: Rinse cautious	en. sly with water for several minutes. Remove contact	lenses, if present and easy to do. Continue
P280	rinsing.		
P310	Wear eye protection / face Immediately call a POISON	I CENTER / doctor /	
P101	If medical advice is needed	, have product container or label at hand.	
Contains:	Reaction mass of 2-(2-(2-b) DIETHYLENE GLYCOL	utoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxah	exadecan-1-ol
2.3. Other hazards			
On the basis of available da	ta, the product does not cont	tain any PBT or vPvB in percentage ≥ than 0,1%.	
The product does not contai	in substances with endocrine	e disrupting properties in concentration $\ge 0.1\%$.	
SECTION 3. Comp	oosition/information	n on ingredients	
3.2. Mixtures			
Contains:			
Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)	
Reaction mass of 2-(2-(2			
butoxyethoxy)ethoxy)eth 3,6,9,12-tetraoxahexadec	an-1-ol		
CAS -	45 ≤ x < 70	Eye Dam. 1 H318	
EC 907-996-4		Eye Dam. 1 H318: ≥ 30%, Eye Irrit. 2 H319: ≥	20%

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REACH Reg. 01-2119475115-41-

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XXX DIETHYLENE GLYCOL			
CAS 111-46-6	10 ≤ x < 30	Acute Tox. 4 H302	
EC 203-872-2		STA Oral: 500 mg/kg	
NDEX 603-140-00-6			
REACH Reg. 01-2119457857-21- xxx TRIETHYLENE GLYCOL			
CAS 112-27-6	5≤x< 10	Substance with a community workplace exposure	e limit.
EC 203-953-2			
INDEX -			
REACH Reg. 01-2119438366-35- xxxx 2,6-di-tert-butyl-p-cresol			
CAS 128-37-0	0,1 ≤ x < 0,2	Aquatic Chronic 1 H410 M=1	
EC 204-881-4			
INDEX -			
REACH Reg. 01-2119480433-40-			

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.



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5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

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7.3. Specific end use(s)		
SECTION 8. Exposure	controls/personal protection	
8.1. Control parameters		

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 "cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai" patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar kīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Predicted no-effect concentration - PNEC

Normal value in fresh water				2	m	g/I		
Normal value in marine wate	er			0,2	mį	g/l		
Normal value for fresh wate	r sediment			6,6	m	g/kg		
Normal value for marine wa	ter sediment			0,66	m	g/kg		
Normal value for water, inte	rmittent release			18	mį	g/l		
Normal value of STP microc	organisms			500	mį	g/l		
Normal value for the food ch	nain (secondary poison	ing)		333	m	g/kg		
Normal value for the terrest	rial compartment			0,46	mį	g/kg		
Health - Derived no-eff	ect level - DNEL / D	OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				12,5 mg/kg bw/d				
Inhalation				117 mg/m3				195 mg/m3
Skin				125 mg/kg bw/d				208 mg/kg bw/d
DIETHYLENE GLYCOL								

Type

Country

TWA/8h

STEL/15min

Remarks /



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						Observat	tions	
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	44	10	176	40			
MAK	DEU	44	10	176	40			
TLV	DNK	11	2,5					
TLV	EST	45	10	90	20	SKIN		
RD	LTU	45	10	90	20	SKIN		
RV	LVA	10						
NGV/KGV	SWE	45	10	90	20	SKIN		
NPEL	SVK	44	10	176				
WEL	GBR	101	23					
Predicted no-effect concentrati	on - PNEC							
Normal value in fresh water				10	mg/	/I		
Normal value in marine water				1	mg/	/I		
Normal value for fresh water se	ediment			20,9	mg/			
Normal value for marine water				2,09	mg/	-		
Normal value for water, intermi				10	mg/	-		
Normal value of STP microorga				199,5	mg/			
Normal value for the terrestrial				1,53	mg/			
Health - Derived no-effect	t level - DNEL / I Effects on consumers	DMEL			Effects on workers			
	Effects on	Acute systemic	Chronic local	Chronic		Acute	Chronic local	Chronic
Route of exposure	Effects on consumers		Chronic local	Chronic systemic 12 mg/m3	workers	Acute systemic	Chronic local 60 mg/m3	Chronic systemic 44 mg/m3
Route of exposure	Effects on consumers			systemic	workers			systemic
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL	Effects on consumers		12 mg/m3	systemic 12 mg/m3	workers		60 mg/m3	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value	Effects on consumers		12 mg/m3	systemic 12 mg/m3	workers	systemic	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value	Effects on consumers Acute local	Acute systemic	12 mg/m3	systemic 12 mg/m3 21 mg/kg/d	workers	systemic	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value Type	Effects on consumers Acute local	Acute systemic	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min	workers Acute local	systemic	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value Type OEL	Effects on consumers Acute local Country EU	Acute systemic	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min	workers Acute local	systemic	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value Type OEL Predicted no-effect concentrati	Effects on consumers Acute local Country EU	Acute systemic	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min	workers Acute local	systemic Remarks Observat	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL	Effects on consumers Acute local Country EU	Acute systemic	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min mg/m3	workers Acute local	systemic Remarks Observa	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value Type OEL Predicted no-effect concentrati Normal value in fresh water Normal value in marine water	Effects on consumers Acute local Country EU on - PNEC	Acute systemic	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min mg/m3 10	workers Acute local	systemic Remarks Observat	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value Type OEL Predicted no-effect concentrati Normal value in fresh water Normal value for fresh water se	Effects on consumers Acute local Country EU on - PNEC	Acute systemic	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min mg/m3 10 10	workers Acute local	Remarks Observa // //	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value Type OEL Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value of STP microorga	Effects on consumers Acute local Country EU on - PNEC ediment anisms	Acute systemic	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min mg/m3 10 1 46	workers Acute local ppm ppm mg, mg,	Remarks Observat	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value Type OEL Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value of STP microorga Normal value for the terrestrial	Effects on consumers Acute local Country EU on - PNEC ediment anisms compartment t level - DNEL / I Effects on	Acute systemic TWA/8h mg/m3 1000	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min mg/m3 10 1 46 10	workers Acute local ppm ppm mg, mg, mg, mg, mg, mg,	Remarks Observat	60 mg/m3 VND	systemic 44 mg/m3
Route of exposure Inhalation Skin TRIETHYLENE GLYCOL Threshold Limit Value Type OEL Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect	Effects on consumers Acute local Country EU on - PNEC ediment anisms compartment t level - DNEL / I	Acute systemic TWA/8h mg/m3 1000	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min mg/m3 10 1 46 10	workers Acute local	Remarks Observat	60 mg/m3 VND	systemic 44 mg/m3 43 mg/kg/
TRIETHYLENE GLYCOL Threshold Limit Value Type OEL Predicted no-effect concentrati Normal value in fresh water Normal value in marine water	Effects on consumers Acute local Country EU on - PNEC ediment anisms compartment t level - DNEL / I Effects on consumers	Acute systemic Acute systemic TWA/8h mg/m3 1000 Acute systemic	12 mg/m3 VND	systemic 12 mg/m3 21 mg/kg/d STEL/15min mg/m3 10 10 1 46 10 3,32 Chronic	workers Acute local ppm ppm mg, mg, mg, mg, mg, Effects on workers	systemic Remarks Observat // // // /kg // /kg // /kg	60 mg/m3 VND	systemic 44 mg/m3 43 mg/kg/

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2,6-di-tert-butyl-p-cre Threshold Limit Value ^{Type}		TWA/8h		STEL/15min			emarks / bservations
TLV-ACGIH		mg/m3	ppm	mg/m3	ppm		
Predicted no-effect concer	tration - PNEC	2					
Normal value in fresh wate	····			0,199		µg/l	
Normal value in marine wate				0.02		μg/l	
Normal value for fresh wat				99,6		μG/kg	
Normal value for marine w				9,96		μG/kg	
				1,99			
Normal value for water int	ermillent release			1,99		µg/l	
Normal value for water, int							
Normal value of STP micro	5			0,17		mg/l	
	5	oning)		0,17 8,33		mg/l mg/kg	

Health - Derived no-ef	fect level - DNEL / I	DMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1 mg/kg bw/d		0,25 mg/kg bw/d				
Inhalation		3,1 mg/m3		0,78 mg/m3		18 mg/m3		4,4 mg/m3
Skin		6,7 mg/kg bw/d		1,7 mg/kg bw/d		19 mg/kg bw/d		4,7 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.



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EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	colourless to amber	
Odour	characteristic	
Melting point / freezing point	Not available	
Initial boiling point	> 200 °C	
Flammability	Not available	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 100 °C	
Auto-ignition temperature	Not available	
рН	9	
Kinematic viscosity Dynamic viscosity	Not available 1250	Temperature: -40 °C
Solubility	soluble	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1,000 - 1,100	
Relative vapour density	Not available	
Particle characteristics	Not applicable	

9.2. Other information

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9.2.1. Information with regard to physical	sical hazard classes	
Information not available		
9.2.2. Other safety characteristics		
VOC (Directive 2010/75/EU)	0	
VOC (volatile carbon)	0	
SECTION 10. Stability an	d reactivity	
10.1. Reactivity		
The product may react exothermically	on contact with strong oxidising or reducing agents, strong acids or bases.	
Reaction mass of 2-(2-(2-butoxyethoxy	y)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	
Hygroscopic.		
DIETHYLENE GLYCOL		
Hygroscopic.		
10.2. Chemical stability		
Excessively high temperatures can car	use thermal decomposition.	
Reaction mass of 2-(2-(2-butoxyethoxy	y)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	
Avoid exposure to: air.		
Hygroscopic.		
10.3. Possibility of hazardous reacti	ons	
See paragraph 10.1.		
DIETHYLENE GLYCOL		
May form explosive mixtures with: per	chlorates.	
10.4. Conditions to avoid		
Avoid overheating.		
DIETHYLENE GLYCOL		
Avoid exposure to: high temperatures.		



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10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

Avoid contact with: strong acids, strong bases, water.

DIETHYLENE GLYCOL

Incompatible with: acids,bases,strong oxidising agents,strong reducing agents.

Keep away from: zinc.

2,6-di-tert-butyl-p-cresol

Avoid contact with: oxidising agents.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

Develops: carbon monoxide, carbon dioxide.

DIETHYLENE GLYCOL

In decomposition develops: carbon dioxide, carbon monoxide.

2,6-di-tert-butyl-p-cresol

In decomposition develops: carbon oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

BRAKE FLUID DOT3 (403403) Deal set 112222 Mile as 1000 Repeated weaking prime or: 200000000 information not available Information not available Information not available information not available Information not available Information not available Information not available information not available Information not available Information not available Information not available information not available Information not available Information not available Information not available information not available Information not available Information not available Information not available information not available Information not available Information not available Information not available information not available Information not available Information not available Information not available information not available Information not available Information not available Information not available information not available Information not available Information not available Information not available information not available Information not available Information not available Information not available information	Valeo	VALEO SERVICE SAS EUROPE	Revision nr. 3
nformation not available Delayed and immediate affects as well as chronic affects from short and long-term exposure Information not available Interactive affects Interactive Interactive affects Interactive		BRAKE FLUID DOT3 (403403)	Printed on 30/11/2022 Page n. 11/19
ntormation not available Delayed and immediate effects as well as chronic effects from short and long-term exposure Information not available Interactive effects Information not available Information not availabl	nformation not available		
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LD50 (Dermal): 16 ml/kg bw LD50 (Oral): > 2000 mg/kg bw LC50 (Inhalation vapours): > 5,2 mg/l 2,6-di-tert-butyl-p-cresol > 2000 mg/kg dw	LC50 (Inhalation mists/powders):		
LD50 (Oral): > 2000 mg/kg bw LC50 (Inhalation vapours): > 5,2 mg/l 2,6-di-tert-butyl-p-cresol > 2000 mg/kg dw	TRIETHYLENE GLYCOL		
LD50 (Dermal): > 2000 mg/kg dw	LD50 (Oral):	> 2000 mg/kg bw	
LD50 (Dermal): > 2000 mg/kg dw LD50 (Oral): > 2930 mg/kg dw	2,6-di-tert-butyl-p-cresol		
	LD50 (Dermal): LD50 (Oral):		



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SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

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Adverse effects on sexual function and	<u>l fertility</u>	
Information not available		
Adverse effects on development of the	offspring	
Information not available		
Effects on or via lactation		
Information not available		
STOT - SINGLE EXPOSURE		
Does not meet the classification criteria	a for this hazard class	
<u>Target organs</u>		
Information not available		
Route of exposure		
Information not available		
STOT - REPEATED EXPOSURE		
Does not meet the classification criteria	a for this hazard class	
Target organs		
Information not available		



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Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

2,6-di-tert-butyl-p-cresol	
EC50 - for Crustacea	> 0,61 mg/l/48h
Chronic NOEC for Crustacea	0,316 mg/l
TRIETHYLENE GLYCOL	
LC50 - for Fish	69800 mg/l/96h
EC50 - for Crustacea	> 10000 mg/l/48h
Reaction mass of 2-(2-(2- butoxyethoxy)ethoxy)ethanol and 3,6,9,12- tetraoxahexadecan-1-ol LC50 - for Fish EC50 - for Crustacea	> 1800 mg/l/96h > 3200 mg/l/48h
EC50 - for Algae / Aquatic Plants	391 mg/l/72h
EC10 for Algae / Aquatic Plants	188 mg/l/72h
DIETHYLENE GLYCOL	
LC50 - for Fish	75200 mg/l

LC50 - for Fish EC50 - for Algae / Aquatic Plants 75200 mg/l

2700 mg/l/72h

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2.2. Persistence and degradability		
2,6-di-tert-butyl-p-cresol		
NOT rapidly degradable		
TRIETHYLENE GLYCOL		
Rapidly degradable		
DIETHYLENE GLYCOL		
Rapidly degradable 2.3. Bioaccumulative potential		
TRIETHYLENE GLYCOL		
Partition coefficient: n-octanol/water	-1,75	
Reaction mass of 2-(2-(2- butoxyethoxy)ethoxy)ethanol and 3,6,9,12- tetraoxahexadecan-1-ol		
Partition coefficient: n-octanol/water	0,51	
DIETHYLENE GLYCOL		
BCF	100	
2.4. Mobility in soil		
TRIETHYLENE GLYCOL		
Partition coefficient: soil/water	1	
2.5. Results of PBT and vPvB assessment		
On the basis of available data, the product doe	s not contain any PBT or vPvB in percentage \geq than 0,1%.	
2.6. Endocrine disrupting properties		
Based on the available data, the product does environmental effects under evaluation.	not contain substances listed in the main European lists of pote	ential or suspected endocrine disruptors with

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods



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Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user



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Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point		

Contained substance

Point

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

75

3

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls



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Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

DIETHYLENE GLYCOL

TRIETHYLENE GLYCOL

2,6-di-tert-butyl-p-cresol

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit

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 TWA STEL: Short-term exposure limi VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioad WGK: Water hazard classes (German GENERAL BIBLIOGRAPHY 	ccumulative as for REACH Regulation		
1. Regulation (EC) 1907/2006 (REACH 2. Regulation (EC) 1272/2008 (CLP) o 3. Regulation (EU) 2020/878 (II Annex 4. Regulation (EU) 2020/878 (II Annex 5. Regulation (EU) 286/2011 (II Atp. CL 6. Regulation (EU) 286/2011 (II Atp. C 7. Regulation (EU) 487/2013 (IV Atp. C 8. Regulation (EU) 944/2013 (V Atp. C 9. Regulation (EU) 905/2014 (VI Atp. 10. Regulation (EU) 2015/1221 (VII Att 11. Regulation (EU) 2016/1179 (IX Atp. 22. Regulation (EU) 2016/1179 (IX Atp.	f the European Parliament of REACH Regulation) .P) of the European Parliament LP) of the European Parliament CLP) of the European Parliament LP) of the European Parliament LP) of the European Parliament CLP) of the European Parliament 0. CLP) of the European Parliament 0. CLP) of the European Parliament		
 Regulation (EU) 2017/776 (X Atp. 14. Regulation (EU) 2018/669 (XI Atp. 15. Regulation (EU) 2019/521 (XII Atp. 16. Delegated Regulation (UE) 2018/1 Regulation (EU) 2019/1148 	CLP) CLP) . CLP)		
 18. Delegated Regulation (UE) 2020/2 19. Delegated Regulation (UE) 2020/1 20. Delegated Regulation (UE) 2021/6 21. Delegated Regulation (UE) 2021/8 The Merck Index 10th Edition 	182 (XV Atp. CLP) 43 (XVI Atp. CLP)		
 Handling Chemical Safety INRS - Fiche Toxicologique (toxicological equation) Patty - Industrial Hygiene and Toxico N.I. Sax - Dangerous properties of In IFA GESTIS website 	logy		
- ECHA website - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy			

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

msds for B2C.

Changes to previous review: The following sections were modified: 03 / 09.