

Revision nr. 5

Dated 04/08/2025

Printed on 04/08/2025

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Replaced revision:4 (Printed on: 21/03/2023)

VALEO BRAKE AND CLUTCH FLUID DOT 4 LV

Safety Data Sheet According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

VALEO BRAKE AND CLUTCH FLUID DOT 4 LV Product name

UFI: RKF0-D00Y-X005-HJN9

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use BRAKE FLUID DOT 4 LV (for B2C)

Identified Uses	Industrial	Professional	Consumer
Functional Fluids	✓	✓	✓
1.3. Details of the supplier of the safety data sheet Name Full address District and Country	Valeo Service Middle-East Aydınevler Mahallesi, Sanayi ETS Plaza No:32 Kat:7 Malte 34854 – Istanbul	•	

Tel. +90 (216) 587 70 00

e-mail address of the competent person

responsible for the Safety Data Sheet alert.middle-east@valeo.com

1.4. Emergency telephone number

For urgent inquiries refer to EG: 123 QA: 999 **UAE: 998**

LB: 140

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

H361fd Suspected of damaging fertility. Suspected of damaging the Reproductive toxicity, category 2

unborn child.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



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Hazard pictograms:



Signal words: Warning

Hazard statements:

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statements:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P405 Store locked up.

P201 Obtain special instructions before use.

Contains: tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] borate

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

tris[2-[2-(2-

methoxyethoxy)ethoxy]ethyl]

borate

INDEX - $45 \le x < 50$ Repr. 2 H361fd

EC 250-418-4 CAS 30989-05-0

REACH Reg. 01-2119462824-33-

XXXX

Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and



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3,6,9,12-tetraoxahexadecan-1-ol

INDEX - 15 ≤ x < 20 Eye Dam. 1 H318

EC 907-996-4 Eye Dam. 1 H318: ≥ 30%, Eye Irrit. 2 H319: ≥ 20% - < 30%

CAS -

REACH Reg. 01-2119475115-41-

XXXX

TRIETHYLENE GLYCOL

INDEX - $1 \le x < 3$ Substance with a community workplace exposure limit.

EC 203-953-2 CAS 112-27-6

REACH Reg. 01-2119438366-35-

XXXX

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

INDEX - $0.1 \le x < 0.2$ Aquatic Chronic 1 H410 M=1

EC 204-881-4 CAS 128-37-0

REACH Reg. 01-2119480433-40-

XXXX

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF exposed or concerned: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.



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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.

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



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bw/d

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.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

ΕU OEL EU Directive (EU) 2022/431; 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 2023

Predicted no-effect concen-	tration - PNEC							
Niamanal control to form to control	_			0.044		//		
Normal value in fresh water			0,211	mg	3/1			
Normal value in marine water			0,021	mg/l				
Normal value for fresh water sediment			0,76	mg/kg				
Normal value for marine wa	ater sediment			0,076	mg	g/kg		
Normal value for water, inte	ermittent release			2,112	mg	g/I		
Normal value of STP micro	organisms			100	mç	g/l		
Normal value for the terrestrial compartment			0,028	mg	g/kg			
Health - Derived no-ef	fect level - DNEL / D	OMEL						
	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				1,5 mg/kg bw/d		•		
Inhalation				2,6 mg/m3				14,8 mg/m3
Skin				1,5 mg/kg				4,2 mg/kg

	cyethoxy)ethoxy)e	thanol				
Threshold Lim	nit Value					
Туре	Country	TWA/8h		STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		50				
Predicted no-effe	ct concentration - PNE	C				
Normal value in f	resh water			10	mg/l	
Normal value in n	marine water			1	mg/l	
Normal value for	fresh water sediment			36,6	mg/kg	
Normal value for	marine water sedimen	t		3,66	mg/kg	

bw/d



Inhalation

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50 mg/m3

VND

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Normal value for water, intermi	ittent release			50	mg	_/ /I		
Normal value of STP microorga	anisms			200	mg	ı/I		
Normal value for the food chair		soning)		89	mg			
Normal value for the terrestrial		3,		1,56	mg			
Health - Derived no-effec	·	/ DMFI		-,	9	,··· y		
	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			VND	2 mg/kg				10 mg/kg bw/d
nhalation			VND	93 mg/m3			VND	156 mg/m3
Skin			VND	100 mg/kg			VND	167 mg/kg bw/d
Reaction mass of 2-(2-(2-		y)ethoxy)ethanol an	d 3,6,9,12-te	traoxahexadeca	n-1-ol			
Normal value in fresh water				2	mg	ı/I		
Normal value in marine water				0,2	mg			
Normal value for fresh water se	ediment			6,6	mg			
Normal value for marine water	sediment			0,66	mg			
Normal value for water, intermi	ittent release			18	mg			
Normal value of STP microorg				500	mg			
Normal value for the food chair		soning)		333	mg			
Normal value for the terrestrial				0,46	mg			
Health - Derived no-effec	·	/ DMEL		-, -		, 3		
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local		Acute local	Acute	Chronic local	Chronic
Oral				systemic 12,5 mg/kg		systemic	:	systemic
nhalation				bw/d 117 mg/m3				195 mg/m3
Skin				125 mg/kg				208 mg/kg
OKIII				bw/d				bw/d
TRIETHYLENE GLYCOL Threshold Limit Value								
Type Cou	ntry TV	VA/8h		STEL/15min			arks / ervations	
	m(g/m3	ppm	mg/m3	ppm	0500	, valiono	
DEL EU	10	000						
Predicted no-effect concentration	on - PNEC							
lormal value in fresh water				10	mg	/I		
Normal value in marine water				1	mg	/I		
Normal value for fresh water se	ediment			46	mg	/kg		
Normal value of STP microorga	anisms			10	mg	/I		
Normal value for the terrestrial	compartment			3,32	mg	/kg		
Health - Derived no-effec	Effects on	/ DMEL			Effects on			
Route of exposure	Acute local	Acute systemic	Chronic local		workers Acute local	Acute systemic	Chronic local	Chronic systemic
labalatia.			05 / 6	systemic		Systemic	50 / 6	Systernic

25 mg/m3

VND



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Skin VND 20 mg/kg/d VND 40 mg/kg/d

Type Coul	ntry TWA/	8h	\$	STEL/15min		Remarks Observat		
	mg/m	.3	ppm r	mg/m3	ppm			
TLV-ACGIH	2							
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,199	μg/l			
Normal value in marine water				0,02	μg/l			
Normal value for fresh water se	ediment			99,6	μG/	kg		
Normal value for marine water	sediment			9,96	μG/	kg		
Normal value for water, intermi	ttent release			1,99	μg/l			
Normal value of STP microorga	anisms			0,17	mg/	1		
Normal value for the food chair	າ (secondary poison	ing)		8,33	mg/	kg		
Normal value for the terrestrial	compartment			47,69	μG/	kg		
Health - Derived no-effect	Effects on consumers	MEL			Effects on 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
METHYL-1H-BENZOTRIA	ZOLE							
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,008	mg/	l		
				0,008	mg/			
Normal value in marine water	ediment					l		
Normal value in marine water Normal value for fresh water se				0,008	mg/	kg		
Normal value in marine water Normal value for fresh water se Normal value for marine water	sediment			0,008	mg/	kg kg		
Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi Normal value of STP microorga	sediment ittent release			0,008 0,0025 0,0025	mg/	kg kg		
Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi Normal value of STP microorga	sediment ittent release anisms			0,008 0,0025 0,0025 0,086	mg/ mg/ mg/	kg kg		
Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial	sediment ittent release anisms compartment t level - DNEL / D Effects on)MEL		0,008 0,0025 0,0025 0,086 39,4	mg/ mg/ mg/ mg/ Effects on	kg kg		
Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect	sediment ittent release anisms compartment t level - DNEL / D	DMEL Acute systemic	Chronic local	0,008 0,0025 0,0025 0,086 39,4 0,0024	mg/	kg kg	Chronic local	Chronic
Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure	ittent release anisms compartment t level - DNEL / D Effects on consumers		Chronic local VND	0,008 0,0025 0,0025 0,086 39,4 0,0024	mg/ mg/ mg/ mg/ Effects on workers	kg kg I	Chronic local	Chronic systemic
Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi	ittent release anisms compartment t level - DNEL / D Effects on consumers			0,008 0,0025 0,0025 0,086 39,4 0,0024 Chronic systemic	mg/ mg/ mg/ mg/ Effects on workers	kg kg	Chronic local VND	

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; LOW = low hazard; MED =



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medium hazard ; HIGH = high hazard.

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.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

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.

EYE PROTECTION

Properties

Flammability

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

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. 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).

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.

Information

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid

Colour colourless to amber

Odour characteristic

Melting point / freezing point not available

Initial boiling point > 260 °C

Value

not available

Lower explosive limit not applicable Upper explosive limit not applicable Flash point > 125 °C



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Temperature: 20 °C

Auto-ignition temperature ~ 300 °C

Decomposition temperature not available

10,8 Hq

Kinematic viscosity 12,4 mm2/s

Solubility
Partition coefficient: n-octanol/water

not available not available not available 1065 g/cm3

Density and/or relative density 1065 g/cm3
Relative vapour density not available
Particle characteristics not applicable

9.2. Other information

Vapour pressure

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 0
VOC (volatile carbon) 0

SECTION 10. Stability and 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)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

Hygroscopic.

10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

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

Avoid exposure to: air.

Hygroscopic.

10.3. Possibility of hazardous reactions

See paragraph 10.1.

10.4. Conditions to avoid

Avoid overheating.

Valeo Service

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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.

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.

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

Information not available

Information on likely routes of exposure

Information 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

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)



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tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] borate LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): > 2000 mg/kg Rat

2-(2-(2-methoxyethoxy)ethoxy)ethanol

7,1 g/kg

LD50 (Dermal): LD50 (Oral): > 10500 mg/kg

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

LD50 (Dermal): 3540 mg/kg bw LD50 (Oral): 5170 mg/kg bw

TRIETHYLENE GLYCOL

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

LD50 (Dermal): > 2000 mg/kg dw LD50 (Oral): > 2930 mg/kg dw

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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

Suspected of damaging fertility - Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD



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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

2-(2-(2-methoxyethoxy)ethoxy)ethanol

 LC50 - for Fish
 10000 mg/l/96h

 EC50 - for Crustacea
 > 500 mg/l/48h

 Chronic NOEC for Crustacea
 3152 mg/l

 Chronic NOEC for Algae / Aquatic Plants
 1000 mg/l

Reaction mass of 2-(2-(2-

butoxyethoxy)ethoxy)ethanol and 3,6,9,12-

tetraoxahexadecan-1-ol

 LC50 - for Fish
 > 1800 mg/l/96h

 EC50 - for Crustacea
 > 3200 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 391 mg/l/72h

 EC10 for Algae / Aquatic Plants
 188 mg/l/72h

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]

borate

12.2. Persistence and degradability

2,6-di-tert-butyl-p-cresol NOT rapidly degradable

TRIETHYLENE GLYCOL

Rapidly degradable

2-(2-(2-methoxyethoxy)ethoxy)ethanol

Rapidly degradable



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tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] borate

Rapidly degradable

12.3. 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

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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



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VALEO BRAKE AND CLUTCH FLUID DOT 4 LV Printed on 04/08/2025 Page n. 14/17 Replaced revision:4 (Printed on: 21/03/2023) 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 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



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Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ 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

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

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] borate

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

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:

Repr. 2Reproductive toxicity, category 2Eye Dam. 1Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2

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Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

EGEND:

- 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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- Regulation (EC) 1907/2006 (REACH) of the European Parliament
 Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)



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- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- 26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
 The Merck Index. 10th Edition
 Handling Chemical Safety

- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- **FCHA** 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: 01 / 03.