

SAFETY DATA SHEET

Version #: 29 Issue date: 28-November-2022 Revision date: 27-February-2023 Supersedes date: 24-February-2023

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

1.1. Product identifier		•
Trade name or designation of the mixture	Comma Brake Fluid DOT 4	
Registration number	-	
Synonyms	None.	
Product code	BF4*	
1.2. Relevant identified uses of t	he substance or mixture and us	ses advised against
Identified uses	Brake fluid	
Uses advised against	None known.	
1.3. Details of the supplier of the	safety data sheet	
Supplier		
Company name Address	Moove Lubricants Itd. Comma Oil & Chemicals Marke Moove Lubricants Netherlands Herikerbergweg 238, 1101CM, A NL	
Division		
Telephone e-mail Contact person 1.4. Emergency telephone	Telephone technical@uk.moovelub.com Not available.	+ 31208083061
number		
	Asia Pacific China Europe Middle East/Africa Ireland National Poisons Info Healthcare professionals-24/7 (public, 8am - 10pm, 7/7) Access Code	+ (1) 760 476 3960 + (86) 4001 2001 74 + (44) 8 08 189 0979 + (1) 760 476 3959 +353 1 809 2566 +353 1 809 2166 334498

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Reproductive toxicity (the unborn child)	Category 2	H361d - Suspected of damaging the unborn child.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended UFI:

Austria: EG50-80U7-X00D-R5HW Belgium: EG50-80U7-X00D-R5HW Bulgaria: EG50-80U7-X00D-R5HW Croatia: EG50-80U7-X00D-R5HW Cyprus: EG50-80U7-X00D-R5HW Czech Republic: EG50-80U7-X00D-R5HW Denmark: EG50-80U7-X00D-R5HW Estonia: EG50-80U7-X00D-R5HW EU: EG50-80U7-X00D-R5HW Finland: EG50-80U7-X00D-R5HW France: EG50-80U7-X00D-R5HW Germany: EG50-80U7-X00D-R5HW Great Britain: EG50-80U7-X00D-R5HW Greece: EG50-80U7-X00D-R5HW Hungary: EG50-80U7-X00D-R5HW Iceland: EG50-80U7-X00D-R5HW Ireland: EG50-80U7-X00D-R5HW Italy: EG50-80U7-X00D-R5HW Latvia: EG50-80U7-X00D-R5HW Lithuania: EG50-80U7-X00D-R5HW Luxembourg: EG50-80U7-X00D-R5HW Malta: EG50-80U7-X00D-R5HW Netherlands: EG50-80U7-X00D-R5HW Norway: EG50-80U7-X00D-R5HW Poland: EG50-80U7-X00D-R5HW Portugal: EG50-80U7-X00D-R5HW Romania: EG50-80U7-X00D-R5HW Slovakia: EG50-80U7-X00D-R5HW Slovenia: EG50-80U7-X00D-R5HW Spain: EG50-80U7-X00D-R5HW Sweden: EG50-80U7-X00D-R5HW 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene Contains: glycol, Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] Orthoborate Hazard pictograms Signal word Warning **Hazard statements** H319 Causes serious eye irritation. Suspected of damaging the unborn child. H361d **Precautionary statements** Prevention Obtain special instructions before use. P201 P202 Do not handle until all safety precautions have been read and understood. P264 Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P280 Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338 and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. P308 + P313 Storage Not available. Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. P501 Supplemental label information None. 2.3. Other hazards This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII. Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chamles!	<i></i>			In deer N	NI = 1 · · ·
Chemical name 2-[2-(2-butoxyethoxy)ethoxy]e TEGBE; triethylene glycol monobutylether; butoxytriethyl			 REACH Registration No 01-2119531322-53 	. Index No. 603-183-00-0	Notes
glycol	IEIIE				
Classif	fication: Eye Da	m. 1;H318			
Tris[2-[2-(2-methoxyethoxy)etl yl] Orthoborate		250-418-4	01-2119462824-33	-	
	fication: Repr. 2				
Butyl Polyglycol	5 - < 1	500-012-0	01-2119475115-41	-	
			0 mg/kg bw), Eye Irrit. 2;H31		
2,2' -oxybisethanol; diethylene		203-872-2	01-2119457857-21	603-140-00-6	
	fication: Acute T				
2-(2-butoxyethoxy)ethanol; die glycol monobutyl ether	-	203-961-6	01-2119475104-44	603-096-00-8	#
	fication: Eye Irri		04 04 10 175 100 75	000 (07 05 5	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl	1 - < ether f ication: Repr. 2	203-906-6	01-2119475100-52	603-107-00-6	#
Other components below repo levels	ortable 30 - <	40			
st of abbreviations and symbo	ls that may be	ised above			
			t(s).		
M: M-factor PBT: persistent, bioaccumulat vPvB: very persistent and very			····)·		
	y bioaccumulativ	e substance.		percent by volume.	
PBT: persistent, bioaccumulat vPvB: very persistent and very All concentrations are in perce	y bioaccumulativ ent by weight unl	e substance.	. Gas concentrations are in p	percent by volume.	
PBT: persistent, bioaccumulat vPvB: very persistent and very All concentrations are in perce omposition comments	y bioaccumulativ ent by weight unl The full text fo	e substance. ess ingredient is a gas	. Gas concentrations are in p	percent by volume.	
PBT: persistent, bioaccumulat vPvB: very persistent and very All concentrations are in perce omposition comments ECTION 4: First aid meas	y bioaccumulativ ent by weight unl The full text for sures IF exposed or (show the labe	e substance. ess ingredient is a gas all H-statements is dis concerned: Get medic I where possible). Ens	. Gas concentrations are in p	I unwell, seek medio	erial(s)
PBT: persistent, bioaccumulat vPvB: very persistent and very All concentrations are in perce omposition comments ECTION 4: First aid meas eneral information	y bioaccumulativ ent by weight unl The full text for sures IF exposed or (show the labe involved, and t attendance.	e substance. ess ingredient is a gas all H-statements is dis concerned: Get medic I where possible). Ens	. Gas concentrations are in p splayed in section 16. al advice/attention. If you fee ure that medical personnel a	I unwell, seek medio	erial(s)
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PBT: persistent, bioaccumulat vPvB: very persistent and very All concentrations are in perce omposition comments ECTION 4: First aid meas eneral information	y bioaccumulativ ent by weight unl The full text for sures IF exposed or (show the labe involved, and t attendance. sures Move to fresh	e substance. ess ingredient is a gas all H-statements is dis concerned: Get medic where possible). Ens ake precautions to pro	. Gas concentrations are in p splayed in section 16. al advice/attention. If you fee ure that medical personnel a tect themselves. Show this s	I unwell, seek media re aware of the mat afety data sheet to	erial(s) the doctor
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PBT: persistent, bioaccumulat vPvB: very persistent and very All concentrations are in perce composition comments SECTION 4: First aid meas teneral information 1. Description of first aid meas Inhalation Skin contact Eye contact Ingestion 2. Most important symptoms and effects, both acute and elayed 3. Indication of any mmediate medical attention and special treatment needed SECTION 5: Firefighting media	y bioaccumulativent by weight uni The full text for Sures IF exposed or (show the laber involved, and the attendance. Sures Move to fresh Wash off with si Immediately flup present and ea Rinse mouth. (Severe eye irrivision. Provide genera Symptoms mathematical No unusual fire Alcohol resista	e substance. ess ingredient is a gas all H-statements is di- concerned: Get medic. I where possible). Ens ake precautions to pro- air. Call a physician if s soap and water. Get m ish eyes with plenty of sy to do. Continue rins Get medical attention if tation. Symptoms may al supportive measures y be delayed.	. Gas concentrations are in p splayed in section 16. al advice/attention. If you fee ure that medical personnel a tect themselves. Show this s symptoms develop or persist edical attention if irritation de water for at least 15 minutes sing. If eye irritation persists: symptoms occur. include stinging, tearing, rec s and treat symptomatically.	I unwell, seek media are aware of the mat afety data sheet to evelops and persists S. Remove contact la Get medical advice dness, swelling, and Keep victim under o	erial(s) the doctor s. enses, if /attention. blurred

5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, prote	ctive equipment and emergency procedures
For non-emergency personnel	Wear appropriate personal protective equipment.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Use water spray to reduce vapours or divert vapour cloud drift.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.
SECTION 7: Handling and	storage

7.1. Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Brake fluid

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	МАК	67,5 mg/m3	
		10 ppm	
	STEL	101,2 mg/m3	
		15 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	МАК	50,1 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	МАК	44 mg/m3	
		10 ppm	
	STEL	176 mg/m3	
		40 ppm	

Belgium. Exposure Limit Values			
Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Туре	value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	TWA	10 mg/m3	

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	MAC	67,5 mg/m3	
		10 ppm	
	STEL	101,2 mg/m3	
		15 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	MAC	50,1 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	MAC	101 mg/m3	
		23 ppm	
Czech Republic. OELs. Governme	nt Decree 361		
Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	Ceiling	100 mg/m3	
	TWA	70 mg/m3	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	Ceiling	100 mg/m3	
111-11-0)			

Denmark. Exposure Limit Values Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	TLV	68 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TLV	50 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	TLV	11 mg/m3	
		2,5 ppm	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended Components Type Value

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	TWA	67,5 mg/m3
		10 ppm
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	STEL	90 mg/m3
		20 ppm
	TWA	45 mg/m3
		10 ppm
Finland. Workplace Exposure Limit	S	
Components	Туре	Value
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	TWA	68 mg/m3
		10 ppm
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS	TWA	50 mg/m3
111-77-3)		
111-77-3)		10 ppm
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate	TWA	10 ppm 0,5 mg/m3
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0) France. OELs. Indicative Occupatio		
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0) France. OELs. Indicative Occupatio Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl	onal Exposure Limits as Pres	0,5 mg/m3 scribed by Order of 30 June 2004, as amended
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0) France. OELs. Indicative Occupatio Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl	onal Exposure Limits as Pres Type	0,5 mg/m3 scribed by Order of 30 June 2004, as amended Value
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0) France. OELs. Indicative Occupatio Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl	onal Exposure Limits as Pres Type	0,5 mg/m3 scribed by Order of 30 June 2004, as amended Value 101,2 mg/m3
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0) France. OELs. Indicative Occupatio Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl	onal Exposure Limits as Pres Type VLE	0,5 mg/m3 scribed by Order of 30 June 2004, as amended Value 101,2 mg/m3 15 ppm
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0) France. OELs. Indicative Occupation Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS	onal Exposure Limits as Pres Type VLE	0,5 mg/m3 scribed by Order of 30 June 2004, as amended Value 101,2 mg/m3 15 ppm 67,5 mg/m3
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0) France. OELs. Indicative Occupation Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS	onal Exposure Limits as Pres Type VLE VME	0,5 mg/m3 scribed by Order of 30 June 2004, as amended Value 101,2 mg/m3 15 ppm 67,5 mg/m3 10 ppm
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0) France. OELs. Indicative Occupation Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	vnal Exposure Limits as Pres Type VLE VME VME	0,5 mg/m3 scribed by Order of 30 June 2004, as amended Value 101,2 mg/m3 15 ppm 67,5 mg/m3 10 ppm 50,1 mg/m3
Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	vnal Exposure Limits as Pres Type VLE VME VME	0,5 mg/m3 scribed by Order of 30 June 2004, as amended Value 101,2 mg/m3 15 ppm 67,5 mg/m3 10 ppm 50,1 mg/m3 10 ppm

Values (VLEP) for	Туре	Value	
		15 ppm	
Regulatory indicat	tive (VRI)		
	VME	67,5 mg/m3	
Regulatory indicat	tive (VRI)		
		10 ppm	
วไ	VME	50,1 mg/m3	
Regulatory indicat	tive (VRI)		
regulatory marca		10 ppm	
Regulatory indicat	tive (VRI)		
0		tigation of Health Hazards	of Chemical Compoun
	Туре	Value	Form
			Vapour and aerosol.
; /l	IVVA	o7 mg/m3	vapour and aerosol.
		10 ppm	Vapour and aerosol.
	TWA	44 mg/m3	Vapour and aerosol.
		10 ppm	Vapour and aerosol.
hit Values in the A	mbiant Air at the Workplac		·
it values in the A	Type	Value	Form
;	AGW	67 mg/m3	Vapour and aerosol.
/I			
		10 ppm	Vapour and aerosol.
ol	AGW		Vapour and aerosol.
		oo mg/mo	
		10 ppm	Vapour and aerosol.
	A C) A (Vapour and aerosol.
	AGW	44 mg/m3	vapour and aerosor.
		10 ppm	Vapour and aerosol.
o. 90/1999, as ame	ended)		
	Туре	Value	
,	STEL	101,2 mg/m3	
/l			
		15 nnm	
	Τ\Λ/Λ		
	IVVA	-	
-1	T \A/A		
וכ	IVVA	50,1 mg/m3	
		40	
		10 ppm	
cree on Chemical			
	Туре	Value	
	Regulatory indicate Regulatory indicate Regulatory indicate Regulatory indicate (advisory OELs).	Regulatory indicative (VRI) VME Regulatory indicative (VRI) Regulatory indicative (VRI) Regulatory indicative (VRI) Regulatory indicative (VRI) (advisory OELs). Commission for the Invest Type TWA TWA it Values in the Ambient Air at the Workplac Type AGW AGW AGW	Regulatory indicative (VRI) VME 67,5 mg/m3 Regulatory indicative (VRI) 10 ppm Regulatory indicative (VRI) 50,1 mg/m3 Regulatory indicative (VRI) 10 ppm Regulatory indicative (VRI) 10 ppm Regulatory indicative (VRI) 10 ppm Regulatory indicative (VRI) 67 mg/m3 (advisory OELs). Commission for the Investigation of Health Hazards 10 ppm 1 TWA 67 mg/m3 1 TWA 67 mg/m3 1 TWA 67 mg/m3 1 AGW 67 mg/m3 1 AGW 67 mg/m3 1 Nue 10 ppm 1 AGW 67 mg/m3 1 AGW 50 mg/m3 1 STEL 10 ppm 1 STEL 10 ppm 1 TWA 67,5 mg/m3 1 TWA 67,5 mg/m3 1 TWA 67,5 mg/m3 1 TWA 67,5 mg/m3 1 TWA 50,1 mg/m3

Hungary. OELs. Joint Decree on Chemical Components	Туре	Value
	TWA	67,5 mg/m3
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3
celand. OELs. Regulation 390/2009 on Po Components	llution Limits and Measures to Red Type	duce Pollution at the Workplace, as amende Value
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3
		15 ppm
	TWA	67,5 mg/m3
		10 ppm
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3
		10 ppm
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	TWA	11 mg/m3
		2,5 ppm
Ireland. Occupational Exposure Limits Components	Туре	Value
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3
		12 ppm
	TWA	67,5 mg/m3
		10 ppm
2-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS I11-77-3)	TWA	50,1 mg/m3
		10 ppm
2,2' -oxybisethanol; diethylene glycol (CAS I11-46-6)	TWA	100 mg/m3
		23 ppm
taly. Occupational Exposure Limits Components	Туре	Value
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3
		15 ppm
	TWA	67,5 mg/m3
		10 ppm
2-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS I11-77-3)	TWA	50,1 mg/m3
		10 ppm
Latvia. OELs. Occupational exposure limit Components	values of chemical substances in Type	work environment Value
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3

Components	Туре	Value	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS	TWA	10 mg/m3	

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

111-46-6)

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	STEL	90 mg/m3	
		20 ppm	
	TWA	45 mg/m3	
		10 ppm	
Tris[2-[2-(2-methoxyethoxy) ethoxy]ethyl] Orthoborate (CAS 30989-05-0)	TWA	2 mg/m3	

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	

Components	Туре	Value	
-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3)	TWA	50,1 mg/m3	
11-77-5)		10 ppm	
etherlands. OELs (binding) omponents	Туре	Value	
(2-butoxyethoxy)ethanol; ethylene glycol monobutyl	STEL	100 mg/m3	
ther (CAS 112-34-5)			
	TWA	50 mg/m3	
-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3)	TWA	45 mg/m3	
lorway. Administrative Norms for components	Contaminants in the Workpla Type	ace Value	
-(2-butoxyethoxy)ethanol;	TLV	68 mg/m3	
ther (CAS 112-34-5)		oo mg/mo	
		10 ppm	
-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3)	TLV	50 mg/m3	
11-77-5)		10 ppm	
Poland. Maximum permissible con	centrations and intensities o		nvironment (Dz.U.Poz.
286/2018, Annex 1)	centrations and intensities o Type		nvironment (Dz.U.Poz. Form
286/2018, Annex 1) components -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl		f harmful factors in the work e	
286/2018, Annex 1) components -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl	Туре	f harmful factors in the work e Value	
286/2018, Annex 1) Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS	Type STEL	f harmful factors in the work en Value 100 mg/m3	
286/2018, Annex 1) Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3) 2,2' -oxybisethanol; liethylene glycol (CAS	Type STEL TWA	f harmful factors in the work en Value 100 mg/m3 67 mg/m3	
286/2018, Annex 1) components -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl ther (CAS 112-34-5) -(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3) ,2' -oxybisethanol; iethylene glycol (CAS 11-46-6) Portugal. OELs. Decree-Law n. 290	Type STEL TWA TWA TWA	f harmful factors in the work en Value 100 mg/m3 67 mg/m3 50 mg/m3 10 mg/m3	Form
286/2018, Annex 1) omponents -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl ther (CAS 112-34-5) -(2-methoxyethoxy)ethanol diethylene glycol ionomethyl ether (CAS 11-77-3) ,2' -oxybisethanol; iethylene glycol (CAS 11-46-6) ortugal. OELs. Decree-Law n. 290 omponents -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl	Type STEL TWA TWA TWA	f harmful factors in the work en Value 100 mg/m3 67 mg/m3 50 mg/m3 10 mg/m3 ic - 1 Series A, n.266)	Form
286/2018, Annex 1) omponents -(2-butoxyethoxy)ethanol; ethylene glycol monobutyl ther (CAS 112-34-5) -(2-methoxyethoxy)ethanol diethylene glycol ionomethyl ether (CAS 11-77-3) 2' -oxybisethanol; ethylene glycol (CAS 11-46-6) ortugal. OELs. Decree-Law n. 290 omponents -(2-butoxyethoxy)ethanol; ethylene glycol monobutyl	Type STEL TWA TWA TWA /2001 (Journal of the Republ Type	f harmful factors in the work en Value 100 mg/m3 67 mg/m3 50 mg/m3 10 mg/m3 ic - 1 Series A, n.266) Value	Form
286/2018, Annex 1) omponents -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl ther (CAS 112-34-5) -(2-methoxyethoxy)ethanol diethylene glycol ionomethyl ether (CAS 11-77-3) ,2' -oxybisethanol; iethylene glycol (CAS 11-46-6) ortugal. OELs. Decree-Law n. 290 omponents -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl	Type STEL TWA TWA TWA /2001 (Journal of the Republ Type	f harmful factors in the work en Value 100 mg/m3 67 mg/m3 50 mg/m3 10 mg/m3 ic - 1 Series A, n.266) Value 101,2 mg/m3	Form
286/2018, Annex 1) components -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl ther (CAS 112-34-5) -(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3) ,2' -oxybisethanol; iethylene glycol (CAS 11-46-6) ortugal. OELs. Decree-Law n. 290 components -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl	Type STEL TWA TWA TWA /2001 (Journal of the Republ Type STEL	f harmful factors in the work en Value 100 mg/m3 67 mg/m3 50 mg/m3 10 mg/m3 ic - 1 Series A, n.266) Value 101,2 mg/m3 15 ppm	Form
286/2018, Annex 1) Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl ther (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3) 2,2' -oxybisethanol; liethylene glycol (CAS 11-46-6) 2-ortugal. OELs. Decree-Law n. 290 Components 2-(2-butoxyethoxy)ethanol; liethylene glycol monobutyl ther (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol diethylene glycol monomethyl ether (CAS	Type STEL TWA TWA TWA /2001 (Journal of the Republ Type STEL	f harmful factors in the work en Value 100 mg/m3 67 mg/m3 50 mg/m3 10 mg/m3 ic - 1 Series A, n.266) Value 101,2 mg/m3 15 ppm 67,5 mg/m3	Form
286/2018, Annex 1) components -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl ther (CAS 112-34-5) -(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3) ,2' -oxybisethanol; iethylene glycol (CAS 11-46-6) components -(2-butoxyethoxy)ethanol; iethylene glycol monobutyl ther (CAS 112-34-5) -(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS	Type STEL TWA TWA 7WA /2001 (Journal of the Republ Type STEL TWA	f harmful factors in the work en Value 100 mg/m3 67 mg/m3 50 mg/m3 10 mg/m3 ic - 1 Series A, n.266) Value 101,2 mg/m3 15 ppm 67,5 mg/m3 10 ppm	Form
Poland. Maximum permissible com 286/2018, Annex 1) Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3) 2,2' -oxybisethanol; diethylene glycol (CAS 11-46-6) Portugal. OELs. Decree-Law n. 290 Components 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5) 2-(2-methoxyethoxy)ethanol diethylene glycol nonomethyl ether (CAS 11-77-3) Portugal. VLEs. Norm on occupatio Components	Type STEL TWA TWA TWA STEL Z001 (Journal of the Republity STEL STEL TWA TWA TWA TWA TWA	f harmful factors in the work environment Value 100 mg/m3 67 mg/m3 50 mg/m3 10 mg/m3 ic - 1 Series A, n.266) Value 101,2 mg/m3 15 ppm 67,5 mg/m3 10 ppm 50,1 mg/m3	Form

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424),

Romania. OELs. Protection of v	workers from exposure to chen	nical agents at the workplace
Components	Type	Value

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	STEL	800 mg/m3	
		184 ppm	
	TWA	500 mg/m3	
		115 ppm	

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	STEL	90 mg/m3	
		20 ppm	
	TWA	44 mg/m3	
		10 ppm	

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	TWA	44 mg/m3	
		10 ppm	
Spain. Occupational Exposure Lim	lits		
Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	

Spain. Occupational Exposure Limits

Components	Туре	Value	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
		10 ppm	

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	Ceiling	101 mg/m3	
		15 ppm	
	TWA	68 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50 mg/m3	
		10 ppm	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	STEL	90 mg/m3	
		20 ppm	
	TWA	45 mg/m3	
		10 ppm	

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Туре	Value	Form
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101 mg/m3	Vapour and aerosol.
		15 ppm	Vapour and aerosol.
	TWA	67 mg/m3	Vapour and aerosol.
		10 ppm	Vapour and aerosol.
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)	STEL	176 mg/m3	Vapour and aerosol.
		40 ppm	Vapour and aerosol.
	TWA	44 mg/m3	Vapour and aerosol.
		10 ppm	Vapour and aerosol.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
2-(2-methoxyethoxy)ethanol ; diethylene glycol monomethyl ether (CAS 111-77-3)	TWA	50,1 mg/m3	
, ,		10 ppm	

Components		Туре		Va	lue	
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)		TWA		10 [.]	1 mg/m3	
,				23	ppm	
EU. Indicative Exposure Components	Limit Values in	Directive Type	es 91/322/EEC, 20		15/EC, 200 lue	9/161/EU, 2017/164/EU
2-(2-butoxyethoxy)ethanol diethylene glycol monobut ether (CAS 112-34-5)		STEL		101	1,2 mg/m3	
				15	ppm	
		TWA		67,	5 mg/m3	
				10	ppm	
2-(2-methoxyethoxy)ethar ; diethylene glycol monomethyl ether (CAS 111-77-3)	nol	TWA		50,	1 mg/m3	
				10	ppm	
ogical limit values						
			f Workers agains	t Exposure to D	angerous	Chemicals at Work, OELs
BELs, Annex IV (NN 91/2 Components	2018), as amende Value	ed	Determinant	Specimen	Samplin	g Time
2-(2-methoxyethoxy)ethar ; diethylene glycol monomethyl ether (CAS 111-77-3)	nol 15 mg/g		Methoxyacetic acid	Creatinine in urine	*	
ommended monitoring edures ved no effect levels (DNI			ment. itoring procedure:	5.		
ommended monitoring redures ved no effect levels (DNI General population	Follow stan	dard mor	itoring procedures			
ommended monitoring edures ved no effect levels (DNI <u>General population</u> Components	Follow stan		itoring procedures		ent factor	Notes
ommended monitoring redures ved no effect levels (DNI <u>General population</u> Components Butyl Polyglycol (CAS 900	Follow stan ELs) 04-77-7)	dard mor Valu	nitoring procedures	Assessm	ent factor	
ommended monitoring edures ved no effect levels (DNI <u>General population</u> Components	Follow stan ELs))4-77-7) Dermal	dard mor Valu 125 I	itoring procedures		ent factor	Notes Repeated dose toxicity Repeated dose toxicity
ommended monitoring redures ved no effect levels (DNR <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic,	Follow stan ELs))4-77-7) Dermal Inhalation	dard mor Valu 125 117	nitoring procedures e mg/kg bw/day	Assessm 40	ent factor	Repeated dose toxicity
ommended monitoring redures ved no effect levels (DNR <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O	Valu 125 I 117 I 12,5 rthoborate	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05-	Assessm 40 10 40 0)	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
wed no effect levels (DNR General population Components Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic,	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal	Valu 125 n 117 n 12,5 rthoborate 10 m	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- ng/kg bw/day	Assessm 40 10 40 0) 100	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
ommended monitoring redures ved no effect levels (DNR <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic, Long-term, Systemic, Long-term, Systemic,	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal	Valu 125 n 117 n 12,5 rthoborate 10 m	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05-	Assessm 40 10 40 0)	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
bedieneral population General population Components Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Morkers	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal	Valu 125 (117 (12,5 rthoborate 10 m 10 m	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day	40 10 40 0) 100 100		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
ommended monitoring redures ved no effect levels (DNR <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic, Long-term, Systemic, Morkers Components	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral	Valu 125 r 117 r 12,5 rthoborate 10 m 10 m	e mg/kg bw/day mg/kg bw/day mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day	Assessm 40 10 40 0) 100 100 Assessm	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
ommended monitoring redures ved no effect levels (DNR <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic, Long-term, Systemic, Morkers Components	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral	Valu 125 r 117 r 12,5 rthoborate 10 m 10 m 20 monobe	e mg/kg bw/day mg/kg bw/day mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day	Assessm 40 10 40 0) 100 100 Assessm		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
bernmended monitoring redures ved no effect levels (DNI <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic, Long-term, Systemic, <u>Workers</u> <u>Components</u> 2-(2-butoxyethoxy)ethanol Long-term, Local, Inh Long-term, Systemic,	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral	Valu 125 r 117 r 12,5 rthoborate 10 m 10 m 0 monobu 67,5 83 m	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- ig/kg bw/day ig/kg bw/day g/kg bw/day e utyl ether (CAS 11 mg/m3 ig/kg bw/day	Assessm 40 10 40 0) 100 100 Assessm		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity
ommended monitoring edures ved no effect levels (DNI <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic, Long-term, Systemic, <u>Workers</u> <u>Components</u> 2-(2-butoxyethoxy)ethanol Long-term, Local, Inh Long-term, Systemic, Long-term, Systemic, Long-term, Systemic,	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral l; diethylene glyco alation Dermal Inhalation	Valu 125 r 117 r 12,5 rthoborate 10 m 10 m 01 monobu 67,5 83 m 67,5	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- ng/kg bw/day g/kg bw/day g/kg bw/day e utyl ether (CAS 11 mg/m3 ng/kg bw/day mg/m3	Assessm 40 10 40 0) 100 100 100 2-34-5)		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation
And the systemic, short-term, systemic, systemic, systemic, systemic, systemic, systemic, systemic, short-term, systemic, syst	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] Or Dermal Oral l; diethylene glyco alation Dermal Inhalation alation	Valu 125 n 117 n 12,5 rthoborate 10 m 10 m 01 monobu 67,5 83 m 67,5 101,2	e mg/kg bw/day mg/kg bw/day mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day g/kg bw/day e utyl ether (CAS 11 mg/m3 g/kg bw/day mg/m3 2 mg/m3	Assessm 40 10 40 0) 100 100 2-34-5) 24		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity
And the second state of th	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral l; diethylene glyco alation Dermal Inhalation nalation nol; diethylene gly	Valu 125 n 117 n 12,5 rthoborate 10 m 10 m 0 monobe 67,5 83 m 67,5 101,2	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day g/kg bw/day g/kg bw/day mg/m3 g/kg bw/day mg/m3 2 mg/m3 2 mg/m3 methyl ether (CAS	Assessm 40 10 40 0) 100 100 2-34-5) 24 \$ 111-77-3)		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation respiratory tract irritation
And the systemic, short-term, systemic, systemic, systemic, systemic, systemic, systemic, systemic, short-term, systemic, syst	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral l; diethylene glyco alation Dermal Inhalation nalation nol; diethylene gly Dermal	Valu 125 n 117 n 12,5 rthoborate 10 m 10 m 01 monobe 67,5 83 m 67,5 101,3 rcol mono 2,22	e mg/kg bw/day mg/kg bw/day mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day g/kg bw/day e utyl ether (CAS 11 mg/m3 g/kg bw/day mg/m3 2 mg/m3	Assessm 40 10 40 0) 100 100 2-34-5) 24		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation
And the second state of th	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral l; diethylene glyco alation Dermal Inhalation nol; diethylene gly Dermal Inhalation	Valu 125 n 127 n 12,5 117 n 12,5 rthoborate 10 m 67,5 83 m 67,5 101,2 rcol mono 2,22 50,1	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- ig/kg bw/day ig/kg bw/day ig/kg bw/day mg/m3 ig/kg bw/day mg/m3 2 mg/m3 methyl ether (CAS mg/kg bw/day mg/m3	Assessm 40 10 40 0) 100 100 2-34-5) 24 \$ 111-77-3)		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation respiratory tract irritation
And the second state of th	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] Or Dermal Oral l; diethylene glyco alation Dermal Inhalation hol; diethylene gly Dermal Inhalation deltion Dermal Inhalation	Valu 125 n 117 n 12,5 rthoborate 10 m 10 m 01 monobe 67,5 83 m 67,5 101,2 rcol mono 2,22 50,1 111-46-6 60 m	e mg/kg bw/day mg/kg bw/day mg/kg bw/day e (CAS 30989-05- ng/kg bw/day ng/kg bw/day g/kg bw/day mg/m3 2 mg/m3 2 mg/m3 methyl ether (CAS mg/kg bw/day mg/m3 2 mg/m3 inethyl ether (CAS	Assessm 40 10 40 0) 100 100 2-34-5) 24 5 111-77-3) 18 2		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation Repeated dose toxicity respiratory tract irritation
And the second state of th	Follow stan ELs) A4-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] Or Dermal Oral l; diethylene glyco alation Dermal Inhalation nol; diethylene gly Dermal Inhalation rol; diethylene gly Dermal Inhalation Dermal Inhalation Dermal Inhalation	Valu 125 n 117 n 12,5 rthoborate 10 m 10 m Valu ol monobe 67,5 83 m 67,5 101,2 rcol mono 2,22 50,1 111-46-6 60 m 43 m	e mg/kg bw/day mg/kg bw/day mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day g/kg bw/day mg/m3 g/kg bw/day mg/m3 2 mg/m3 methyl ether (CAS mg/kg bw/day mg/m3 ;) ig/m3 ig/kg bw/day	Assessm 40 10 40 0) 100 100 2-34-5) 24 5 111-77-3) 18		Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation Repeated dose toxicity Repeated dose toxicity
And the second state of th	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral l; diethylene glyco alation Dermal Inhalation alation delene glycol (CAS alation Dermal Inhalation	Valu 125 n 117 n 12,5 rthoborate 10 m 10 m 0 monobe 67,5 83 m 67,5 101,3 rcol mono 2,22 50,1 111-46-6 60 m 43 m 44 m	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day g/kg bw/day mg/m3 2 mg/m3 2 mg/m3 methyl ether (CAS mg/kg bw/day mg/m3 2 mg/m3 inethyl ether (CAS g/kg bw/day mg/m3 inethyl ether (CAS g/kg bw/day mg/m3 inethyl ether (CAS g/m3 ing/m3 ing/m3	Assessm 40 10 40 0) 100 100 2-34-5) 24 5 111-77-3) 18 2 105	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation Repeated dose toxicity respiratory tract irritation Repeated dose toxicity
Demmended monitoring redures ved no effect levels (DNR <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic, Long-term, Systemic, <u>Workers</u> Components 2-(2-butoxyethoxy)ethanol Long-term, Local, Inh Long-term, Systemic, Short-term, Local, Inh Long-term, Systemic, Short-term, Systemic, Short-term, Systemic, Long-term, Systemic,	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral I; diethylene glycol alation Dermal Inhalation nol; diethylene gly Dermal Inhalation dene glycol (CAS alation Dermal Inhalation xy]ethanol; TEGE	Valu 125 n 127 n 12,5 117 n 12,5 rthoborate 10 m 01 monobu 67,5 83 m 67,5 101,2 rcol monobu 2,22 50,1 111-46-6 60 m 43 m 3E; triethy	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- ig/kg bw/day ig/kg bw/day ig/kg bw/day mg/m3 2 mg/m3 2 mg/m3 imethyl ether (CAS mg/kg bw/day mg/m3 i) ig/kg bw/day ig/m3 ig/kg bw/day ig/m3 ig/kg bw/day ig/m3 ig/kg bw/day	Assessm 40 10 40 0) 100 100 2-34-5) 24 5 111-77-3) 18 2 105 butylether; butoxy	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation Repeated dose toxicity
bernmended monitoring redures ved no effect levels (DNR <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Morkers <u>Components</u> 2-(2-butoxyethoxy)ethanol Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Short-term, Local, Inh 2-(2-methoxyethoxy)ethar Long-term, Systemic, Short-term, Systemic, Long-term, Systemic,	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral I; diethylene glycol alation Dermal Inhalation nol; diethylene gly Dermal Inhalation dene glycol (CAS alation Dermal Inhalation xy]ethanol; TEGE rmal	Valu 125 n 127 n 12,5 117 n 12,5 rthoborate 10 m 10 m 10 m 0 monobu 67,5 83 m 67,5 101,2 rcol monobu 2,22 50,1 111-46-6 60 m 43 m 3E; triethy 5,65	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- g/kg bw/day g/kg bw/day g/kg bw/day mg/m3 2 mg/m3 2 mg/m3 methyl ether (CAS mg/kg bw/day mg/m3 2 mg/m3 inethyl ether (CAS g/kg bw/day mg/m3 inethyl ether (CAS g/kg bw/day mg/m3 inethyl ether (CAS g/m3 ing/m3 ing/m3	Assessm 40 10 40 0) 100 100 2-34-5) 24 5 111-77-3) 18 2 105	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation Repeated dose toxicity respiratory tract irritation Repeated dose toxicity
ommended monitoring edures ved no effect levels (DNI <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethox Long-term, Systemic, Long-term, Systemic, <u>Workers</u> <u>Components</u> 2-(2-butoxyethoxy)ethanol Long-term, Local, Inh Long-term, Systemic, Short-term, Local, Inh Long-term, Systemic, Short-term, Systemic, Long-term, Local, Inh Long-term, Local, Dei Long-term, Local, Inh Long-term, Local, Inh	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral I; diethylene glycol alation Dermal Inhalation nol; diethylene gly Dermal Inhalation dene glycol (CAS alation Dermal Inhalation xy]ethanol; TEGE rmal alation Dermal Inhalation Xy]ethanol; TEGE	Valu 125 n 12,5 rthoborate 10 m 10 m 10 m 0 monobu 67,5 83 m 67,5 101,2 rcol monob 2,22 50,1 111-46-6 60 m 43 m 44 m 3E; triethy 5,65 30,5 1005	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- ig/kg bw/day ig/kg bw/day ig/kg bw/day mg/m3 ig/kg bw/day mg/m3 2 mg/m3 imethyl ether (CAS mg/kg bw/day mg/m3 ig/kg bw/day ing/m3 ig/kg bw/day ig/m3 ig/kg bw/day ig/m3	Assessm 40 10 40 0) 100 100 2-34-5) 24 5 111-77-3) 18 2 105 butylether; butoxy 5 5 5 5	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation glycol (CAS 143-22-6) Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
ommended monitoring edures ved no effect levels (DNI <u>General population</u> <u>Components</u> Butyl Polyglycol (CAS 900 Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Tris[2-[2-(2-methoxyethoxy Long-term, Systemic, Long-term, Systemic, <u>Workers</u> <u>Components</u> 2-(2-butoxyethoxy)ethanol Long-term, Local, Inh Long-term, Systemic, Short-term, Local, Inh Long-term, Systemic, Short-term, Systemic, Long-term, Local, Inh Long-term, Local, Inh Long-term, Local, Dei Long-term, Local, Dei Long-term, Local, Inh	Follow stan ELs) 04-77-7) Dermal Inhalation Oral y)ethoxy]ethyl] O Dermal Oral I; diethylene glycol alation Dermal Inhalation nol; diethylene gly Dermal Inhalation dene glycol (CAS alation Dermal Inhalation xy]ethanol; TEGE rmal alation Dermal Inhalation xy]ethanol; TEGE rmal alation Dermal Inhalation	Valu 125 m 125 m 12,5 rthoborate 10 m 10 m 10 m 0 m 0 m 0 m 0 m 0 m 0 m 0 m	e mg/kg bw/day mg/m3 mg/kg bw/day e (CAS 30989-05- ig/kg bw/day ig/kg bw/day ig/kg bw/day mg/m3 2 mg/m3 2 mg/m3 imethyl ether (CAS mg/kg bw/day mg/m3 2 mg/m3 ig/kg bw/day ig/m3 ig/kg bw/day ig/m3 ig/kg bw/day ig/m3 ig/kg bw/day ig/m3 ig/kg bw/day ig/m3 ig/kg bw/day ig/m3 ig/kg bw/day ig/m3	Assessm 40 10 40 0) 100 100 2-34-5) 24 5 111-77-3) 18 2 105 butylether; butoxy 5 5	ent factor	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Notes respiratory tract irritation Repeated dose toxicity respiratory tract irritation glycol (CAS 143-22-6) Repeated dose toxicity Repeated dose toxicity

Material name: Comma Brake Fluid DOT 4 - Moove Lubricants Itd.

BF4* Version #: 29 Revision date: 27-February-2023 Issue date: 28-November-2022

Chart term Systemic Inhelation	06 mg/m2	F	
Short-term, Systemic, Inhalation	96 mg/m3	5	Acute toxicity
Butyl Polyglycol (CAS 9004-77-7)			
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation	208 mg/kg bw/da 195 mg/m3	y 24 6	Repeated dose toxicity Repeated dose toxicity
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] (•	-	Repeated dose toxicity
	•	•	Dependence toxicity
Long-term, Systemic, Dermal	16,7 mg/kg bw/da	ay 60	Repeated dose toxicity
redicted no effect concentrations (PNECs	-		
Components	Value	Assessment facto	or Notes
2-(2-methoxyethoxy)ethanol; diethylene g	•	(CAS 111-77-3)	
Freshwater	12 mg/l	100	
Intermittent releases	12 mg/l	100	
Marine water Secondary poisoning	1,2 mg/l 0,09 g/kg	1000 200	Oral
Sediment (freshwater)	44,4 mg/kg	200	Clai
Sediment (marine water)	0,44 mg/kg		
Soil	2,1 mg/kg		
STP	10000 mg/l	1	
2,2' -oxybisethanol; diethylene glycol (CA	S 111-46-6)		
Freshwater	10 mg/l	10	
Marine water	1 mg/l	100	
Sediment (freshwater)	20,9 mg/kg		
Sediment (marine water) Soil	2,09 mg/kg 1,53 mg/kg		
STP	199,5 mg/l	10	
2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEG		nonobutylether: butoxytriethyle	ne alvcol (CAS 143-22-6)
Freshwater	100 mg/l	10	
Intermittent releases	22 mg/l	100	
Marine water	142,57 mg/l	100	
Secondary poisoning	525,5 mg/kg	10	Oral
Sediment (freshwater)	11,115 mg/kg	10	
Sediment (marine water) Soil	1,111 mg/kg 11,51 mg/kg	10 10	
STP	199,5 mg/l	10	
Butyl Polyglycol (CAS 9004-77-7)			
Freshwater	4,5 mg/l	100	
Marine water	0,31 mg/l	1000	
Secondary poisoning	333 mg/kg	30	Oral
Sediment (freshwater)	6,6 mg/kg	1000	
Sediment (marine water)	0,66 mg/kg	10000	
Soil STP	1,02 mg/kg 500 mg/l	10	
	•		
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] (
Freshwater Intermittent releases	0,211 mg/l 2,112 mg/l	1000 100	
Marine water	0,021 mg/l	1000	
Sediment (freshwater)	0,76 mg/kg		
Sediment (marine water)	0,076 mg/kg		
Soil	0,028 mg/kg	10	
STP	100 mg/l	10	
xposure guidelines			
Austria MAK: Skin designation			
2-(2-methoxyethoxy)ethanol; diethyle monomethyl ether (CAS 111-77-3)	ne glycol C	an be absorbed through the sk	kin.
Belgium OELs: Skin designation			in
2-(2-methoxyethoxy)ethanol; diethyle monomethyl ether (CAS 111-77-3) Bulgaria OELs: Skin designation	ne giycol C	an be absorbed through the sk	sin.
2-(2-methoxyethoxy)ethanol; diethyle	ne glycol C	an be absorbed through the sk	kin.
monomethyl ether (CAS 111-77-3) Croatia ELVs: Skin designation			
2-(2-methoxyethoxy)ethanol; diethyle monomethyl ether (CAS 111-77-3) Czech Republic PELs: Skin designation	••	an be absorbed through the sk	kin.
2-(2-methoxyethoxy)ethanol; diethyle		an be absorbed through the sk	

Denmark GV: Skin designation	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Estonia OELs: Skin designation	Can be absorbed through the skin.
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6) EU Exposure Limit Values: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Finland Exposure Limit Values: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)	Can be absorbed through the skin.
France Indicative OELs: Skin Designation 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)	Can be absorbed through the skin.
France INRS: Skin designation	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Germany TRGS 900 Limit Values: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Greece OEL: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Iceland OELs: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Ireland Exposure Limit Values: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Italy OELs: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)	Danger of cutaneous absorption
Latvia OELs: Skin designation	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Lithuania OELs: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)	Can be absorbed through the skin.
2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6) Luxembourg OELs: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Malta OELs: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Netherlands OELs (binding): Skin designation	Can be absorbed through the skin.
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)	Can be absorbed through the skin.
Norway Exposure Limit Values: Skin designation 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)	Can be absorbed through the skin.
Portugal OELs: Skin designation	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)	Can be absorbed through the skin.
Romania OELs: Skin designation	Can be absorbed through the skin
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3) Slovakia OELs: Skin designation	Can be absorbed through the skin.
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)	Can be absorbed through the skin.
Slovenia. OELs. Regulations concerning protection of wo (Official Gazette of the Republic of Slovenia)	rkers against risks due to exposure to chemicals while working
2-(2-methoxyethoxy)ethanol; diethylene glycol	Can be absorbed through the skin.

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)

Spain OELs: Skin designation	on	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)		Can be absorbed through the skin.
Sweden Threshold Limit Val	ues: Skin designation	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)		Can be absorbed through the skin.
	lene glycol (CAS 111-46-6)	Can be absorbed through the skin.
UK EH40 WEL: Skin designa		
2-(2-methoxyethoxy)ethar monomethyl ether (CAS 1		Can be absorbed through the skin.
8.2. Exposure controls		
Appropriate engineering controls	applicable, use process enclos maintain airborne levels below	Id be used. Ventilation rates should be matched to conditions. If sures, local exhaust ventilation, or other engineering controls to recommended exposure limits. If exposure limits have not been levels to an acceptable level. Provide eyewash station.
Individual protection measures,	such as personal protective e	quipment
General information		ment as required. Personal protection equipment should be chosen ds and in discussion with the supplier of the personal protective
Eye/face protection	Chemical respirator with organ	ic vapour cartridge and full facepiece.
Skin protection		
- Hand protection	Wear appropriate chemical res	sistant gloves.
- Other	Wear suitable protective clothing. Use of an impervious apron is recommended.	
Respiratory protection	Chemical respirator with organic vapour cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
Hygiene measures	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	
Environmental exposure controls	with the requirements of enviro	work process equipment should be checked to ensure they comply onmental protection legislation. Fume scrubbers, filters or ne process equipment may be necessary to reduce emissions to

SECTION 9: Physical and chemical properties

9.1. Information on basic physica	I and chemical properties
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9.1. Information on basic physica	al and chemical properties
Physical state	Liquid.
Form	Liquid.
Colour	Yellow-orange.
Odour	Characteristic.
Melting point/freezing point	-35,2 °C (-31,36 °F) estimated <-50 °C (<-58 °F)
Boiling point or initial boiling point and boiling range	>260 °C (>500 °F)
Flammability	Not applicable.
Flash point	143,3 °C (290,0 °F) 143,0 °C (289,4 °F) estimated
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
рН	> 9 - < 10
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	0,6 hPa estimated
Density and/or relative density	
Density	1,07 g/cm3 1,01 g/cm3 estimated
Relative density	1,04

Relative density temperature	20 °C (68 °F)
Vapour density	Not available.
Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristic	cs
VOC	7,94 % estimated
SECTION 10: Stability and	I reactivity
10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. HazardousNo hazardous decomposition products are known.decomposition products

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.	
Information on likely routes of e	xposure	
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Causes serious eye irritation.	
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.	

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

Acute toxicity	Not known.	
Product	Species	Test Results
Comma Brake Fluid DOT 4	1	
<u>Acute</u>		
Dermal		
LD50	Rabbit	14766 mg/kg, 24 Hours
Inhalation		
LC50	Rat	12000 mg/m3, 8 Hours
Oral		
LD50	Rat	21007 mg/kg
Components	Species	Test Results
2-(2-butoxyethoxy)ethanol;	diethylene glycol monobutyl ether (0	CAS 112-34-5)
Acute		
Dermal		
LD50	Rabbit	2700 mg/kg
Oral		
LD50	Rat	3306 mg/kg
2-(2-methoxyethoxy)ethance	ol; diethylene glycol monomethyl eth	er (CAS 111-77-3)
Acute		
Dermal		
LD50	Rabbit	6540 mg/kg
Oral		
LD50	Rat	5500 mg/kg

Components	Species		Test Results
2,2' -oxybisethanol; diethylene gl	ycol (CAS 111-4	46-6)	
Acute			
Dermal			
LD50	Rabbit		11890 mg/kg
Oral LD50	Rat		12570 mg/kg
2-[2-(2-butoxyethoxy)ethoxy]etha	anol; TEGBE; trie	ethylene glycol monobutylether; butox	ytriethylene glycol (CAS 143-22-6)
Acute			
Dermal	Rabbit		
LD50	Rabbit		3540 mg/kg, 24 Hours
Oral LD50	Rat		5000 mg/kg
Butyl Polyglycol (CAS 9004-77-7			
Acute	/		
Dermal			
LD50	Rat		> 2000 mg/kg, 24 Hours
Oral			
LD50	Rat		2000 mg/kg
Skin corrosion/irritation	Due to partia	al or complete lack of data the classific	ation is not possible.
Serious eye damage/eye	Causes serie	ous eye irritation.	
irritation			
Respiratory sensitisation	-	al or complete lack of data the classific	
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.		
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.		
	•		
(as amended)	inance on prot	ection against and preventing risk i	relating to exposure to carcinogens at work
	anol; diethylene	glycol monomethyl ether (CAS 111-7	7-3)
Reproductive toxicity	Suspected o	f damaging the unborn child.	
Specific target organ toxicity - single exposure	Due to partia	al or complete lack of data the classific	ation is not possible.
Specific target organ toxicity - repeated exposure	Due to partia	al or complete lack of data the classific	ation is not possible.
Aspiration hazard	Due to partia	al or complete lack of data the classific	ation is not possible.
Mixture versus substance information	No information	No information available.	
11.2. Information on other haza	ards		
Endocrine disrupting properties	Not available	9.	
Other information	Not available.		
SECTION 12: Ecological	information		
12.1. Toxicity	Based on av environment		are not met for hazardous to the aquatic
Product		Species	Test Results
Comma Brake Fluid DOT 4			
Aquatic			
Acute	1.050		
Fish	LC50	Fish	66488,4375 mg/l, 96 hours estimated
Components		Species	Test Results
2-(2-butoxyethoxy)ethanol; diethy Aquatic	viene giycol mor	ioputyl ether (CAS 112-34-5)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours

Components		Species		Test Results
2-(2-methoxyethoxy)ethanol; dieth	nylene glyco	I monomethyl ether (CAS 111-77-3)	
Aquatic				
Acute				// // // // // // // // // // // //
Fish	LC50	Bluegill (Lepon	nis macrochirus)	7500 mg/l, 96 hours
2,2' -oxybisethanol; diethylene gly	col (CAS 11	1-46-6)		
Aquatic				
Acute			uitafiah (Camhuaia af	
Fish	LC50	-		finis) > 32000 mg/l, 96 hours
12.2. Persistence and degradability	No data is available on the degrad		gradability of any ingr	redients in the mixture.
12.3. Bioaccumulative potential				
Partition coefficient				
n-octanol/water (log Kow) 2-(2-butoxyethoxy)ethanol; di	ethylene alv	col monobutyl ether	0,56	
2-(2-methoxyethoxy)ethanol;			-1,18	
ether			4 47	
2,2' -oxybisethanol; diethylen 2-[2-(2-butoxyethoxy)ethoxy]ethoxy]ethoxytriethy	ethanol; TEC	GBE; triethylene glyco	-1,47 bl 0,02	
Bioconcentration factor (BCF)	Not availa	able.		
12.4. Mobility in soil	No data a	vailable.		
12.5. Results of PBT and vPvB assessment		Г or vPvB substance n (EC) No 1907/2006		ure does not meet vPvB / PBT criteria of
12.6. Endocrine disrupting properties	Not availa	able.		
12.7. Other adverse effects				depletion, photochemical ozone creation ential) are expected from this component.
12.8. Additional information				
Estonia Dangerous substar	nces in soil	Data		
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)		ene glycol		s (As the total sum of the active substances)
			0,5 mg/kg Chemical pesticides	s (As the total sum of the active substances) 2
			mg/kg	
			Chemical pesticides mg/kg	s (As the total sum of the active substances) 5
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] Orthoborate (CAS 30989-05-0)		Boron (B) 100 mg/kg	9	
		Boron (B) 30 mg/kg		
			Boron (B) 500 mg/k	g
SECTION 13: Disposal co	nsiderati	ons		
13.1. Waste treatment methods				

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

NK	
14.1. UN number	UN3021
14.2. UN proper shipping	PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S., flash-point less than 23 °C
name	(2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether)
14.3. Transport hazard clas	s(es)
Class	3
Subsidiary risk	6.1

Material name: Comma Brake Fluid DOT 4 - Moove Lubricants ltd.

BF4* Version #: 29 Revision date: 27-February-2023 Issue date: 28-November-2022

Label(s) Hazard No. (ADR) Tunnel restriction code 14.4. Packing group	II
14.5. Environmental hazards 14.6. Special precautions	No. Read safety instructions, SDS and emergency procedures before handling.
for user	read ballety methodiene, ebe and emergency procedured belore handming.
RID	
14.1. UN number 14.2. UN proper shipping name	UN3021 PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S., flash-point less than 23 °C (2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether)
14.3. Transport hazard class	(es)
Class	3
Subsidiary risk	6.1 3+6.1
Label(s) 14.4. Packing group	S+0.1
14.5. Environmental hazards	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
ADN	
14.1. UN number	UN3021
14.2. UN proper shipping	PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S., flash-point less than 23 °C
name	(2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether)
14.3. Transport hazard class	3
Class Subsidiary risk	5 6.1
Label(s)	3+6.1
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
ΙΑΤΑ	
14.1. UN number	UN3021
14.2. UN proper shipping name	Pesticide, liquid, flammable, toxic, n.o.s. flash point less than 23°C (2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether)
14.3. Transport hazard class	
Class	3
Subsidiary risk	6.1
14.4. Packing group	П
14.5. Environmental hazards	
ERG Code	3P
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
14.1. UN number	UN3021
14.2. UN proper shipping	PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N.O.S. flashpoint less than 23°C
name	(2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether)
14.3. Transport hazard class	3
Class Subsidiary risk	6.1
14.4. Packing group	
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Maritime transport in bulk according to IMO instruments	Not established.



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended 2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

UFI:

Austria: EG50-80U7-X00D-R5HW Belgium: EG50-80U7-X00D-R5HW Bulgaria: EG50-80U7-X00D-R5HW Croatia: EG50-80U7-X00D-R5HW Cyprus: EG50-80U7-X00D-R5HW Czech Republic: EG50-80U7-X00D-R5HW Denmark: EG50-80U7-X00D-R5HW Estonia: EG50-80U7-X00D-R5HW EU: EG50-80U7-X00D-R5HW Finland: EG50-80U7-X00D-R5HW France: EG50-80U7-X00D-R5HW Germany: EG50-80U7-X00D-R5HW Great Britain: EG50-80U7-X00D-R5HW Greece: EG50-80U7-X00D-R5HW Hungary: EG50-80U7-X00D-R5HW Iceland: EG50-80U7-X00D-R5HW Ireland: EG50-80U7-X00D-R5HW Italy: EG50-80U7-X00D-R5HW Latvia: EG50-80U7-X00D-R5HW Lithuania: EG50-80U7-X00D-R5HW Luxembourg: EG50-80U7-X00D-R5HW Malta: EG50-80U7-X00D-R5HW Netherlands: EG50-80U7-X00D-R5HW Norway: EG50-80U7-X00D-R5HW Poland: EG50-80U7-X00D-R5HW Portugal: EG50-80U7-X00D-R5HW Romania: EG50-80U7-X00D-R5HW Slovakia: EG50-80U7-X00D-R5HW Slovenia: EG50-80U7-X00D-R5HW Spain: EG50-80U7-X00D-R5HW Sweden: EG50-80U7-X00D-R5HW

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (CAS 112-34-5)

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (CAS 111-77-3)

2,2' -oxybisethanol; diethylene glycol (CAS 111-46-6)

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol (CAS 143-22-6) Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] Orthoborate (CAS 30989-05-0)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on Not listed.	major accident hazards involving dangerous substances, as amended
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.
	Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

	 ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany). CAS: Chemical Abstract Service. CEN: European Committee for Standardization. IATA: International Air Transport Association. IBC: International Maritime Dangerous Goods. MAC: Maximum Allowed Concentration. MARPOL: International Convention for the Prevention of Pollution from Ships. PBT: Persistent, bioaccumulative, toxic. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value. vPvB: Very persistent and very bioaccumulative.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements, which are not written out in full	
under sections 2 to 15	H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H361d Suspected of damaging the unborn child. H361fd Suspected of damaging fertility or the unborn child.
Revision information	SECTION 2: Hazards identification: Prevention Composition / Information on Ingredients: Component Summary
Training information	Follow training instructions when handling this material.
Disclaimer	Moove Lubricants ltd. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.