SECTION 1 - PRODUCT AND COMPANY I	DENTIFICATION				
PRODUCT NAME DOT 3 AND DOT 4 BR	AKE FLUIDS		SAE	NA	
Product Use Brake fluid/Hydraulic fluid	<ul> <li>professional/consu</li> </ul>	mer use	Product Numbe	r	
Uses advised against: No additional information available					
Company Identification					
United Grease and Lubricants Co LLC, PC	) Box 2685, Ajman, U	nited Arab Emirat	es. Www.unitedgrease.con	า	
Transportation Emergency Response		Health Emergen	cy Product Inf	ormation	
(971)(54) 2171575		(971)(54)217157	5 (971)(54)21	171575	
SECTION 2 HAZARDS IDENTIFICATION					
Classification	Not classified a	as hazardous acco	rding to 29 CFR 1910.1200 (	(2012)	
Hazards Not Otherwise Classified	Not applicable				
EC Index No N/A EC No	N/A CAS No	N/A	<b>REACH Registration No</b>	N/A	
SECTION 2 Label Elements		-		-	
Labelling according to Regulation (EC) No	. 1272/2008 (CLP)				
EUH Statements EUH210	- Safety data sheet a	vailable on reque	st		
Specifc target organ toxicity - Repeated e	-	-			
Full text of H and EUH statements: See Se	-				
Adverse Physico-chemical, human healt	h and environmenta	l effects			
Hamrful If swalloed. May cause damage			and repeated		
exposure (Oral)					
Hazard Pictograms (CLP)					
	GHS07	GHS08			
Warning	Not applicable				
Contains	Ethanediol, eth				
Hazardous Statements (CLP)	H 302 - Harmfu				
			gans (kidneys) thorough		
		epeated exposure			
Precautionary statements (CLP)			ed, have product container	or	
recationary statements (CEF)	label at hand			01	
		ut of reach of child	dron		
	=	breath vapours			
		ands thoroughly a	ftor bandling		
			Call a POISON CENTER, a do	stor	
	if you feel unw		all a POISON CLIVIER, a uu		
	=		ntainer according to nation	al	
	or loval regulat	-		ai	
Other hazards (not relevant for classification	_	lions			
-	-	urs are beauter th	an air and will		
Other hazards not contributing to the cla	-				
accumulate in closed areas and at ground static charge by flow or agitation and can					
	• •	• •			
of accidents involving pressurised circuits	=				
under the skin, even without external da					
a hospital as soon as possible, to get spec	lanzed medical treat	ment. Do not wai	t for symptoms		
to develop This substance/mixuture does not meet the PBT criteria of REACH regulation, , Annex XIII					
	ne PBT criteria of RE	ACH regulation, ,		1 - f 17	
Revision No <b>Original</b>	Durdent DOTO		Page	1 of 17	
Revision Date 25/07/2023	Product DOT 3 AN	D DOT 4 BRAKE F	LOID2		

This substance/mixture does not meet the vPvB criteria of REACH regulation, Annex XIII Contains no PBT/vPvB substances ≥0.1@ assessed in accordance with REACH Annex XIII

This substance/mixture does not meet the PBT criteria of
REACH Regulation, Annex XIII
This substance/mixture does not meet the vPvB criteria of
REACH Regulation, Annex XIII
This substance/mixture does not meet the PBT criteria of
REACH Regulation, Annex XIII
This substance/mixture does not meet the vPvB criteria of
REACH Regulation, Annex XIII
e(s) included in the list established in accordance with
rine disrupting properties, or is not idenfieid as having
rdance with the criteria set out in Commission
ommission Regulation (EU) 2018/605 at a concentratiom
This substance is not included in the list established in accordiance
with article 59(1) of the REACH for having endocrine disrupting
properties, or is not indendified as having endocrine disrupting
properties in accordance with the criteria set out in the
Commission Delegated Regulation (EU) 2017/2100 or Commission
Regulation (EU) 2018/605
This substance is not included in the list established in accordiance
with article 59(1) of the REACH for having endocrine disrupting
properties, or is not indendified as having endocrine disrupting
properties in accordance with the criteria set out in the
Commission Delegated Regulation (EU) 2017/2100 or Commission
Regulation (EU) 2018/605

# SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS (SUBSTANCES)

# Not applicable **3.2 Mxtures**

Composition/Information on ingredients Synthetic base stock (polyglycol) Rust Inhibitor

Name	Product Identifier	%	Classification according to 1272/2008
2-2 (2 butoxyethoxy) ethoxyetanol TEGBE triethylene glycol mono butyl ether; butoxytriethylene glycol (143-22-6)	CAS 143-22-6 EC 205-592-6 ECINo. 603-183-00-0 REACH NO. 01 2119475197- 38	≥1>5	Eye Dam 1, H 318
2=2 oxybisethanol' diethylene glycol (*) salts, with the exception of those specificed else- where in this Annex			Acute Tox 4 (Oral) H 302
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MATERIAL SAFETY DATA SHEET				
2,2 (ethylenenedioxy) diethanol	CAS 112-27-6EC No. 203- 953-9: Reach No. 01- 2119438366-35; EC Index No. NA	≥1>5	Not classified	
1-1 iminodipropan-2-oll di isopropanolamine	CAS 110-97-4EC No. 203- 820-9: Reach No. 01- 2119475107-38; EC Index No. 603-140-00-6	≥1>5	Eye Irri 2, H319	

Specific concentration limits

Name	Product Identifier	Specific concentration limits	
2-2 (2 butoxyethoxy) ethoxyetanol	CAS 143-22-6	(20≤C<30) Eye Irr 2 H 319	
TEGBE triethylene glycol mono butyl	EC 205-592-6	(30≤C<100) Eye Dam 1 H 318	
ether; butoxytriethylene glycol	ECINo. 603-183-00-0		
(143-22-6)	REACH No. 01 2119475197-38		

Notes

Substance with national workplace exposure limits

Full text of H and EUH statements:See section 16

# SECTION 4 - First Aid Measures

General	In case of symptoms arising from inhalation of product fumes, mists or vapour. Remove so				
inhalation	fresh air, keep the casualty warm and at rest. If casualry is unconscious and not breating;				
	ensure that there is no obstruction to breathing and give artificial respiration by trained				
	personnel. If necessary, give external cardiac message andobtain medical advice. If the				
	casualty is breathing; place in the recovery position. Administer oxygen if necessary				
	Get medical advice/attention				
Skin	Take off contaminated clothing and shoes. Wash thoroughly with soap and water.				
Contact	If inflammation or irritation persists, seek medical advice.				
Eye contact	Remove contact lenses, ir present and easy to do so. Rinse eyes thoroughly for at				
	least 15 minutes. Keep eyelids wide apart. If irritation, blurred vision or swelling				
	occurs and persists, obtain medical advice from a specialist				
Ingestion	Rinse mouth thoroughly with water. In case of spontaneous vomitting, keep				
	head low, to avoid the risk of aspiration into the lungs. If the person is fully				
	conscious, make him/her drink plenty of water. Never give an unconscious				
	person anything to drink. Send the casualty immediately to a hospital				
	Do not induce vomitting				
Most import	ant symptoms and effects, both acute and delayed				
Systems/Inju	ries after inhalation				
	Inhalation may cause irritation (cough, short breathing, difficulty in breathing)				
Systems/Inju	ries after skin contact Prolonged or repeated skin contact may cause a				
	redeening, irritation and dermatitis, due to a defatting effect				
Systems/Inju	ries after eye contact Contact with eyes ma cause temporary reddening and	irritatic	n		
Symptoms/ii	njuries after ingestion				
	Accidental ingestion of small quantities of the product may cause nausea, discomfort and				
	gastric disturbances. If any, nausea and diarrhoea might occur				
Symptoms/ii	njuries upon intravenous administration No information available				
Chronic sym					
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Revision Date		5 01	1/		
	C 25/07/2025 FIDUULL DOTS AND DOT 4 DRAKE FLOIDS				

Troct of	ediate medical attention and special treatment needed
-	mptomatically. Obtain medical attention if casualty has an altered
	consciousness or if symptons do not resolve No information available.
ECTION 5 - FIRE FIGH	
EXTINGUISHING MED	
JNSUITABLE	Do not use a heavy water stream
•	g from the substance or mixture
	t flammable. The product is combustible, but not classified as flammable. The creation of
	mmable vapour mixtures takes place at temperatures which are higher than normal
	bient levels
xplosion Hazard	No direct explosion hazard. Heat may build pressure in tank and containers.
	pturing closed vessels, spreading fire and increasing risk of burns and injuries
=	ition products in case of fire
Inc	ompelte combustion releases dangerous carbon monoxide, carbon di oxide
and	d other toxic gases. Oxygenated compounts (aldehydes etc.)
Advice for firefighters	
irefighting instructio	ns Shut off source of product, if possible. If possible, move containers and drums
aw	ay from danger area. Spilled product which is not burning should be covered
	with sand or foam. Use water sprays to cool containers and surfaces exposed
	to the flames. If the fire cannot be controlled, evacuate area
pecial protective equ	uipment for firefighters
	Wear personal protection equipment (see chapter 8). DO not enter fire area
	without proper protective equipment, including respiratory protection EN 443
	EN 469 or EN 659. In case of a large fire or in confined or poorly ventalated
	spaces, wear full fire resistant protectionclothing and self containing
	breathing apparatus (SCBA), with a full face-piece operated in positive
	pressure mode
Other information	In case of fire, do not discharge residual product, waste materials and run
	off water. Collect separately and use a proper treatment
ECTION 6 - ACCIDEN	TAL RELEASE MEASURES
	protective equipment and emergency procedures
	Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources
	if safe to do so (e.g. electricity, sparks, fires, flares). Avoid contact
	with released material
or Non emergency P	
or Non emergency P	
Protective Equipment	See section 8
	See section 8 Keep non-involved personnel away from the area of spillage. Alert emergency
Protective Equipment	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions</li> </ul>
Protective Equipment	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent</li> </ul>
Protective Equipment Emergency Procedure	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.</li> </ul>
Protective Equipment Emergency Procedure For Emergency Respo	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.</li> </ul>
Protective Equipment Emergency Procedure	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.</li> <li>mders</li> <li>Small spillages: normal antistatic working clothes are usually adequate.</li> </ul>
Protective Equipment Emergency Procedure For Emergency Respo	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.</li> <li>mders</li> <li>Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. if</li> </ul>
Protective Equipment Emergency Procedure For Emergency Respo	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.</li> <li>mders</li> <li>Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate</li> </ul>
Protective Equipment Emergency Procedure For Emergency Respo	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.</li> <li>mders</li> <li>Small spillages: normal antistatic working clothes are usually adequate.</li> <li>Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate chemical esistance, specifically to aromatic hydrocarbons. Gloves made of</li> </ul>
Protective Equipment Emergency Procedure For Emergency Respo	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.</li> <li>mders</li> <li>Small spillages: normal antistatic working clothes are usually adequate.</li> <li>Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate chemical esistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use.</li> </ul>
Protective Equipment Emergency Procedure For Emergency Respo	<ul> <li>See section 8</li> <li>Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.</li> <li>mders</li> <li>Small spillages: normal antistatic working clothes are usually adequate.</li> <li>Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate chemical esistance, specifically to aromatic hydrocarbons. Gloves made of</li> </ul>

MATERIAL SAFETY DATA SHEET	
	heat-resistant and thermally insulated. Antistatic non skid safety shoes or
	boots, chemical resistant, if necessary heat resistant and insulated. Work
helmet. Goggle	es and /or face shield, if splashes or contact with eyes is possible
= =	. Respiratory protection: A half or full-face respirator with filter
	ours (and when applicable for H2S). A Self Contained Breathing
	BA) can be used according to the extent of spill and predictable
	posure. If the situation cannot be completely assessed, or if an
	oxygen deficiency is possible, only SCBA's should be used.
mergency Procedures	Notify local authorities according to relevant regulations.
nvironmental precautions	
invironmental precautions	Do not let the product flow into sewers or water courses, or in any way
	contaminate the environment. In case of contamination of environment
	compartments (soil, subsoil, surface or underground waters), remove
	contaminated soil when possible, and in any case treat all involved
-	in accordance with local regulations. The site should have a spill
	eguards are in place to minimize the impact of episodic releases.
Iethods and material for contain	
or containment	Contain spilled liquid with sand, earth or other suitable absorbents
Recover free li	quid and waste materials in suitable waterproof
	and oil resistant containers. Clean contaminated area. Dispose of
	according to local regulations. Water: Confine the spillage. Remove from
	surface by skimming or suitable floating absorbents. Collect recovered
	product and other waste materials in suitable waterproof, oil resistant
	containers. Recover or dispose of according to local regulations.
lethods for cleaning up	Soak up spills with inert solids, such as clay or diatomaceious earth as soon
	as possible. This material and its container must be disposed off in a safe
	way, and according to local legislation
Other Information	Do not use solvents or dispersants, unless specifically advised by an expert,
	and, if required, approved by local authorities. Recommended measures
are based on th	he most likely spillage scenarios for this material; however, local
	nd, air temperature, wave/current direction and speed)
-	ly influence the choice of appropriate actions. Local regulations
	ribe or limit actions to be taken. For this reason, local experts
	sulted when necessary.
eference to other sections	
	ction 8 'Exposure controls/personnel protection. For further
nformation, refer to section 13	en en provins en Africa e provins e e e e e
ECTION 7 HANDLING AND STOR	AGE
Precautions for safe handling	This product is combustible, but will not ignite readily.
-	Provide good ventilation n process area to prevent formation of vapour
	Keep away from sources of ignition No smoling. Sotre in dry, well
	ventilated area. Do not breathe fune/mist/vapours
	Because of the extremely slippery nature of this material, more care than
	usual must be exercised in material handling practices tokeep off all
	walking surfaces. Floors, walls and other surfaces in the hazard area must be
	cleaned regularly. Avoid releases to the environment. Emptied containers
	can contain combustible product residues. Do not cut, weld, drill, burn or
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IVIATERIAL SAFET	T DATA SHEET			
	incir	erate empty containers or drums, unless they have been drained and		
	clea	ned. Before entering storage tanks and commencing any operation		
	in a	confined area (tunnels), carry out an adequate clean up, and check		
	the	atmosphere for oxygen content and flammability		
		Ensure that all relevant regulations regarding handling and storage		
/0		skin. Do not breathe fume/mist/vapours. Do not ingest. Do not smoke		
		ot eat and do not drink during usage. Do not clean hands with dirty		
		il soaked rags. Do not re use clothes, if they are still contaminated.		
		o away from food and beverages. Wash hands and other exposed		
		s with mild soap and water befor eating, drinking or smoking and		
		n leaving work. Contaminated work clothing should not be		
		ved out of the workplace. Separate working clothes from town clothes		
		nder separately		
Conditions for sa	fe storage, including any	y incompatibilities		
Stoage condition	s Stor	e in dry, well ventilated area. Keep away from open flames, hot		
	sur	aces and sources of ignition. Do not smoke.		
	lf pr	oduct is supplied in containers, keep only in the original container		
	or ir	a suitable container for this kind of product. Keep containers		
	tight	ly closed and properly labelled		
Incompatible Pro	ducts Stro	ng acids, strong oxidants. Strong bases/alkalies		
Storage area	Storage area layout, ta	nk design, equipment and operating procedures must		
0		egislation. Storage installations should be designed		
	with adequate bunds so as to prevent ground and water pollution in case of			
	leaks or spills. Cleaning, inspection and maintenance of internal structure of			
		done only by properly equipped and qualified personnel		
		local or company regulations.		
Package and Con	-	e away from direct sunlight or other heat sources. Do not reuse empty		
Fackage and Con				
De else eine Materi		ainers. Keep the preouct in original containers tightly closed and labelled		
Packaging Materi		e in glass, stainless steel or aluminium containers. Some synthetic		
		erials may be unsuitable for containers or container linings depending		
		n material specification and intended use.		
Specific End Uses		nformation available		
	SURE CONTROLS/PERS			
	tional exposure and bio			
	xy) diethanol (112-27-6			
EU Indicative Occ	supational Expsoure Lim			
AGE (OEL TWA)		1000 mg/m <sup>3</sup> (Inhalable fraction)		
Limitation of exp	osure peaks (mg/m3)	2000 mg/m <sup>3</sup> (Inhalable fraction)		
-	ol' diethylene glycol (*)			
AGW OEL TWA		10 mg/m <sup>3</sup> vapours		
AGW OLL TWA		44 ppm		
	osure peaks (ppm)	176 ppm		
-				
· · · · ·	osure peaks (mg/m3)	40 mg/m <sup>3</sup> (Inhalable fraction)		
Air contaminants	formed	No additional information available		
DNEL AND PNEC				
	ginal	Page 6 of 17		
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SCOPE DOT 3 AND DOT 4 BRAKE FLUIDS DNEL/DNEL (additional information Additional information BREC Additional information BREC Acute systemic effects inhalation BREC dermal BREC Brec Brec Brec Brec Brec Brec Brec Brec	MATERIAL SAFETY DATA SHEET	
DNEL/DMEL (additional information) Additional information Not applicable Additional information Not applicable 22 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycol monobutyl ether (143-22-6) DMEL/DMEL (workers) Acute systemic effects inhalation 96 mg/m3 Acute local effects inhalation 96 mg/m3 Acute local effects dernal 8.55mg/cm <sup>3</sup> Acute local effects dernal 208 mg/m8 bodyweight/day Iong term systemic effects inhalation 195 mg/m3 Acute local effects inhalation 30.5 mg/m3 DMEL/DMEL (General Population) Acute systemic effects dernal 200 mg/kg bodyweight/day Acute local effects dernal 200 mg/kg bodyweight/day Acute local effects inhalation 96 mg/m3 Acute local effects dernal 200 mg/kg bodyweight/day Acute local effects dernal 203 mg/m <sup>3</sup> Acute local effects dernal 203 mg/m <sup>3</sup> Acute local effects dernal 204 mg/kg bodyweight/day Acute local effects dernal 205 mg/m <sup>3</sup> Acute local effects dernal 206 mg/m <sup>3</sup> Acute local effects mg/ma Acute local effects mg/ma Acute local effects mg/ma Ac		
Additional information Not applicable Net Net Additional information Not applicable 23 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycol monobutyl ether (143-22-6) DetL/DMEL (vorkers) Acute -systemic effects inhalation 96 mg/m3 Acute -systemic effects dermal 4000 mg/kg bodyweight/day Acute local effects inhalation 96 mg/m3 Acute local effects inhalation 96 mg/m3 Acute local effects inhalation 195 mg/m3 Acute local effects dermal 5.65 mg/cm2 Long term systemic effects inhalation 195 mg/m3 Iong term systemic effects inhalation 195 mg/m3 Acute -systemic effects inhalation 200 mg/kg bodyweight/day Long term systemic effects inhalation 200 mg/kg bodyweight/day Acute -systemic effects inhalation 200 mg/kg bodyweight/day Acute -systemic effects dermal 200 mg/kg bodyweight/day Acute local effects inhalation 96 mg/m3 Acute local effects inhalation 122 mg/m3 Acute local effects inhalation 15252 mg/m3 Acute local effects inhalation 15252 mg/m3 Acute local effects inhalation 12 mg/m3 Iong term local effects inhalation 15252 mg/m3 Acute systemic effects dermal 103.4 mg/kg bodyweight/day PNEC Aqua, fresh water 10 mg/L PNEC Aqua, fresh water 1 mg/L PNEC Aqua, fresh water 1 mg/L PNEC Aqua, intermittent fresh water 1 mg/L PNEC Sediment PNEC sediment, fresh water 1 mg/L PNEC Sediment PNEC sediment, fresh water 3.65 mg / kg dwt PNEC sediment marine water 3.65 mg / kg dwt PNEC Aqua, intermittent fresh water 3.65 mg / kg dwt PNEC Sediment PNEC sediment 100 mg/L PNEC sediment 100 mg/L PNEC sediment 100 mg/L PNEC sediment 12 mg/m3 Long term systemic effects, inhalation 12 mg/m3 Long term systemic effects, inha		
PNEC Additional information Additional information Not applicable Additional information Additional information Set (burchers) Acute systemic effects inhalation Set mg/m3 Acute systemic effects dermal Set mg/m3 Acute systemic effects inhalation Set mg/m3 Acute systemic effects dermal Set mg/m3 Acute systemic effects inhalation Set mg/m3 Acute systemic effects oral Not derly be dyweight/day NEC Mate NEC Aqua, intermittent fresh water NEC Aqua, intermittent fresh wate		Not applicable
Additional information Not applicable Not applicable Additional information Not applicable Additional information Not applicable Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PMEC Additional information Not derived. Not classified as hazardous for health PM		
2.2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycol monobutyl ether (143-22-6) DNEL/DMEL (workers) Acute - systemic effects inhalation 96 mg/m3 Acute - systemic effects dermal 400 mg/kg bodyweight/day Acute local effects dermal 8.55 mg/cm <sup>2</sup> Long term systemic effects dermal 5.65 mg/cm <sup>2</sup> Long term systemic effects dermal 0.05 mg/m3 DNEL/DMEL (General Population) Acute - systemic effects inhalation 48 mg/m3 Acute local effects inhalation 48 mg/m3 Acute - systemic effects inhalation 200 mg/kg bodyweight/day Acute local effects inhalation 125 mg/kg bodyweight/day Acute - systemic effects inhalation 200 mg/kg bodyweight/day Acute - systemic effects inhalation 200 mg/kg bodyweight/day Acute - systemic effects dermal 200 mg/kg bodyweight/day Acute - systemic effects dermal 200 mg/kg bodyweight/day Acute - systemic effects dermal 125 mg/kg bodyweight/day Acute - systemic effects dermal 122 mg/m3 Long term systemic effects dermal 122 mg/m3 Long term systemic effects dermal 122 mg/m3 Acute systemic effects dermal 103.4 mg/kg bodyweight/day NEC Aqua, fresh water 10 mg/L PNEC Aqua, fresh water 200 mg/k gd vt PNEC Aqua, fresh water 200 g/kg food 2.2' ethylenedioxy) diethanol (112-27-6) DNEL/DMEL additional information Not derived. Not classified as hazardous for health PNEC Aqua, fresh water 3.65 mg / kg dvt PNEC Aqua, fresh water 3.65 mg / kg		Notapplicable
DNEL/DMEL (workers)       96 mg/m3         Acute -systemic effects inhalation       96 mg/m3         Acute -systemic effects dermal       8.55mg/cm3         Long term systemic effects dermal       208 mg/kg bodyweight/day         Long term systemic effects dermal       5.55mg/cm3         Long term systemic effects inhalation       195 mg/m3         Long term systemic effects inhalation       30.5 mg/m3         Long term systemic effects inhalation       30.5 mg/m3         Dome try L(General Population)       48 mg/m3         Acute local effects inhalation       48 mg/m3         Acute systemic effects dermal       200 mg/kg bodyweight/day         Acute systemic effects dermal       200 mg/kg bodyweight/day         Acute local effects dermal       212 mg/m3         Long term systemic effects dermal       2823 mg/cm3         Long term systemic effects inhalation       12 mg/m3         Long term systemic effects inhalation       12 mg/m3         Long term systemic effects inhalation       1252 mg/m3         Acute systemic effects inhalation       126 Sc mg/kg bodyweight/day         NPEC Acu		
Acute -systemic effects inhalation 96 mg/m3 Acute -systemic effects dermal 400 mg/kg bodyweight/day Acute local effects dermal 5.55mg/cm <sup>2</sup> Long term systemic effects inhalation 195 mg/m3 long term systemic effects inhalation 30.5 mg/m3 long term systemic effects inhalation 30.5 mg/m3 long term systemic effects inhalation 30.5 mg/m3 Acute -systemic effects inhalation 30.5 mg/m3 Acute -systemic effects inhalation 48 mg/m3 Acute -systemic effects inhalation 96 mg/m <sup>3</sup> Acute -systemic effects inhalation 96 mg/m <sup>3</sup> Acute -systemic effects inhalation 96 mg/m <sup>3</sup> Acute -systemic effects inhalation 12 mg/m <sup>3</sup> Long term systemic effects oral 10 mg/L PNEC Aqua, intermittent fresh water 3.65 mg / kg dwt PNEC Sediment 10 mg/L PNEC Sediment 10 mg/L PNEC Aqua, intermittent fresh water 3.65 mg / kg dwt PNEC Coral, secondary poisoning 20 g/kg food 2.2. <sup>2</sup> (ethylenedicsy) diethanol (12 2.7.6) DNEL/DMEL didtional information Not derived. Not classified as hazardous for health PNEC Aqua, intermittent fresh water 3.65 mg / kg dwt PNEC Aqua, fresh water 3.6		
Acute -systemic effects dermal       400 mg/kg bodyweight/day         Acute local effects dermal       8.55mg/cm <sup>2</sup> Long term systemic effects dermal       208 mg/kg bodyweight/day         long term systemic effects dermal       5.65mg/cm <sup>2</sup> long term systemic effects inhalation       195 mg/m3         long term systemic effects inhalation       30.5 mg/m3         Dong term systemic effects inhalation       30.5 mg/m3         DNEL/DMEL (General Population)       48 mg/m3         Acute local effects inhalation       48 mg/m3         Acute local effects inhalation       96mg/m <sup>3</sup> Acute local effects dermal       200 mg/kg bodyweight/day         Acute local effects dermal       210 mg/kg bodyweight/day         long term systemic effects dermal       223 mg/m <sup>3</sup> long term local effects inhalation       15252 mg/m3         Acute systemic effects areal       10 mg/L         PNEC Aqua, fresh water       10 mg/L         PNEC Aqua, intermittent fresh water       10 mg/L         PNEC Aqua, intermittent fresh water       36.5 mg / kg dwt         PNEC Sediment, marine water       36.5 mg / kg dwt         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Aqua, intermittent fresh water       36.5 mg / kg dwt         PNEC Adui, in		96 mg/m3
Acute local effects inhalation     96mg/m <sup>3</sup> Acute local effects dermal     2.58mg/cm <sup>2</sup> Long term systemic effects dermal     3.65mg/cm <sup>2</sup> long term local effects inhalation     30.5 mg/m3       Dome trom local effects inhalation     30.5 mg/m3       Dome trom local effects inhalation     30.5 mg/m3       Dome trom local effects inhalation     48 mg/m3       Acute - systemic effects inhalation     96mg/m <sup>3</sup> Acute - systemic effects dermal     200 mg/kg bodyweight/day       Acute local effects dermal     4173 8.55mg/cm <sup>2</sup> Acute local effects inhalation     96mg/m <sup>3</sup> Acute local effects inhalation     96mg/m <sup>3</sup> Acute local effects dermal     125 mg/kg bodyweight/day       Long term systemic effects inhalation     12 mg/m <sup>3</sup> Long term systemic effects oral     12.52 mg/m3       Acute systemic effects oral     13.25 mg/kg bodyweight/day       Dong term systemic effects oral     10.34 mg/kg bodyweight/day       PNEC Aqua, fresh water     10 mg/L       PNEC Aqua, intermittent fresh water     10 mg/L       PNEC Aqua, intermittent fresh water     3.65 mg / kg dwt       PNEC Sediment     Not derived. Not classified as hazardous for health       PNEC Sediment     Not derived. Not classified as hazardous for health       PNEC Sedinent     106 mg/kg bodyweight/day    <	·	
Acute local effects dermal       8.55mg/cm <sup>2</sup> Long term systemic effects inhalation       208 mg/kg bodyweight/day         long term systemic effects inhalation       30.5 mg/m3         DNEL/DMEL (General Population)       48 mg/m3         Acute -systemic effects inhalation       48 mg/m3         Acute -systemic effects inhalation       96mg/m <sup>3</sup> Acute -systemic effects inhalation       96mg/m <sup>3</sup> Acute -systemic effects inhalation       96mg/m <sup>3</sup> Acute local effects inhalation       96mg/m <sup>3</sup> Acute local effects inhalation       125 mg/kg bodyweight/day         long term systemic effects inhalation       125 mg/kg bodyweight/day         long term local effects inhalation       125 mg/kg bodyweight/day         long term systemic effects oral       100.4 mg/k         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, fresh water<		
Long term systemic effects dermal 208 mg/kg bodyweight/day 5.65mg/cm <sup>2</sup> long term local effects inhalation 195 mg/m3 long term local effects inhalation 20.5 mg/m3 DNEL/DNEL (General Population) Acute systemic effect dermal 200 mg/kg bodyweight/day Acute systemic effect dermal 200 mg/kg bodyweight/day Acute local effects inhalation 265 mg/kg bodyweight/day Acute local effects dermal 2125 mg/kg bodyweight/day long term local effects dermal 2823 mg/cm <sup>2</sup> Long term systemic effect dermal 2823 mg/cm <sup>2</sup> Long term systemic effect dermal 2823 mg/cm <sup>2</sup> Long term systemic effects dermal 2823 mg/cm <sup>2</sup> Long term systemic effects dermal 2823 mg/cm <sup>2</sup> Long term systemic effects dermal 2823 mg/cm <sup>2</sup> Long term systemic effect solarian 125 mg/kg bodyweight/day long term local effects of and 125 mg/kg bodyweight/day Long term systemic effect of a long L PMEC Aqua, narine water 100 mg/L PNEC Aqua, marine water 10 mg/L PNEC Aqua, intermittent fresh water 100 mg/L PNEC Sediment PNEC Sediment Fresh water 3.65 mg / kg dwt PNEC Sediment fresh water 3.65 mg / kg dwt PNEC Sediment fresh water 90 g/kg food 2,2'-(ethylenedioxy) diethanol (112-27-6) DNEL/DMEL dditional information Not derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardous for health PNEC Additional information Kot derived. Not classified as hazardou		
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long term systemic effects inhalation 195 mg/m3 JORE trom local effects inhalation 30.5 mg/m3 DNEL/DMEL (General Population) Acute -systemic effects inhalation 48 mg/m3 Acute -systemic effects inhalation 96 mg/m <sup>3</sup> Acute -systemic effects inhalation 96 mg/m <sup>3</sup> Acute local effects inhalation 2125 mg/kg bodyweight/day Long term systemic effects dermal 2823 mg/cm <sup>3</sup> Long term systemic effects inhalation 15252 mg/m3 Acute systemic effects oral 103.4 mg/kg bodyweight/day PNEC Aqua, fresh water 100 mg/L PNEC Aqua, intermittent fresh water 100 mg/L PNEC Aqua, intermittent fresh water 36.5 mg / kg dwt PNEC Aqua, intermittent fresh water 36.5 mg / kg dwt PNEC Aqua, intermittent fresh water 90 gg/kg food 2.2'ethylenedioxy diethanol 112-27-6) DNEL/DMEL dditional information Not derived. Not classified as hazardous for health PNEC Aqua infersh water 100 mg/L PNEC Aqua fresh water 100 mg/L PNEC Aqua, intermittent fresh water 100 mg/L PNEC Aqua, intermittent fresh water 100 mg/L PNEC Sediment, fresh water 100 mg/L PNEC Sediment Fresh water 100 mg/L PNEC Sediment fresh water 100 mg/L PNEC Aqua, intermittent fresh water 100 mg/L PNEC Additional information Not derived. Not classified as hazardous for health PNEC Additional information Not derived. Not classified as hazardous for health DNEL/DMEL dditional information Not derived. Not classified as hazardous for health DNEL/DMEL General Population 44 mg/m <sup>3</sup> Long term systemic effects, dermal 106 mg/kg bodyweight/day Long term systemic effects, dermal 12 mg/m <sup>3</sup> Long term systemic effects, dermal 12 mg/m <sup>3</sup> Long term systemic effects, dermal 12 mg/m <sup>3</sup> Long term systemic effects, inhalation 12 mg/m <sup>3</sup> NEC Aqua, fresh water PUE PNEC Aqua, fres		
long term local effects inhalation 30.5 mg/m3 DNEL/DMEL (General Population) Acute -systemic effects dermal 200 mg/kg bodyweight/day Acute -systemic effects dermal 4173 8.55mg/cm <sup>2</sup> Long term systemic effects dermal 4173 8.55mg/cm <sup>2</sup> Long term systemic effects dermal 2823 mg/cm <sup>2</sup> Long term local effects inhalation 12 mg/m3 long term local effects inhalation 15252 mg/m3 Acute systemic effects inhalation 15252 mg/m3 Acute systemic effects oral 103.4 mg/kg bodyweight/day PNEC Aqua, fresh water 10 mg/L PNEC Aqua, intermittent fresh water 10 mg/L PNEC Aqua, intermittent fresh water 36.5 mg / kg dwt PNEC Sediment, fresh water 36.5 mg / kg dwt PNEC Sediment, marine water 36.5 mg / kg dwt PNEC Sediment, marine water 36.5 mg / kg dwt PNEC Sediment, fresh water 36.5 mg / kg dwt PNEC Sediment for Not derived. Not classified as hazardous for health PNEC Sediment information Not derived. Not classified as hazardous for health PNEC Aqua, and for Not derived. Not classified as hazardous for health PNEC Adutional information Not derived. Not classified as hazardous for health DNEL/DMEL dditional information Not derived. Not classified as hazardous for health DNEL/DMEL (Workers) Long term -systemic effects, dermal 106 mg/kg bodyweight/day Long term systemic effects, dermal 121 mg/kg bodyweight/day Long term systemic effects, inhalation 122 mg/m <sup>3</sup> Long term systemic effects, inhalation 121 mg/m <sup>3</sup> Long term systemic effects, inhalation 121 mg/m <sup>3</sup> Long term systemic effects, inhalation 122 mg/m <sup>3</sup> Long term systemic effects, inhalat		
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Acute local effects inhalation 96mg/m <sup>3</sup> Acute local effects dermal 4173 8.55mg/cm <sup>2</sup> Long term systemic effects dermal 2823 mg/cm <sup>2</sup> long term local effects inhalation 12 mg/m <sup>3</sup> long term systemic effects inhalation 15252 mg/m <sup>3</sup> Acute systemic effects inhalation 15252 mg/m <sup>3</sup> Acute systemic effects inhalation 15252 mg/m <sup>3</sup> Acute systemic effects inhalation 10 mg/L PNEC Aqua, fresh water 10 mg/L PNEC Aqua, intermittent fresh water 100 mg/L PNEC Aqua, intermittent fresh water 3.65 mg / kg dwt PNEC Sediment PNEC Sediment 365 mg / kg dwt PNEC Sediment, fresh water 3.65 mg / kg dwt PNEC Aqua, intermittent fresh water 3.65 mg / kg dwt PNEC Aqua, intermittent fresh water 3.65 mg / kg dwt PNEC Sediment, marine water 3.65 mg / kg dwt PNEC Sediment 00 mg/L PNEC Aqua, secondary poisoning 90 g/kg food 22.2'-(ethylenedioxy) diethanol (112-27-6) DNEL/DMEL additional information Not derived. Not classified as hazardous for health PNEC additional information Not derived. Not classified as hazardous for health DNEL Additional information Not derived. Not classified as hazardous for health DNEL/DMEL (Workers) Long term systemic effects, dermal 106 mg/kg bodyweight/day Long term systemic effects, dermal 106 mg/m <sup>3</sup> Long term systemic effects, inhalation 44 mg/m <sup>3</sup> DNEL/DMEL (General Population) Acute, local effects, inhalation 12 mg/m <sup>3</sup> Long term systemic effects, inhalation 12 mg/m <sup>3</sup> PNEC Aqua, fresh water 10 mg/L Revision No Original 70 mg/L Revision No Original 70 mg/L		
Acute local effects dermal       4173 8.55mg/cm <sup>2</sup> Long term systemic effects dermal       2823 mg/cm <sup>2</sup> long term local effects inhalation       12 mg/m3         long term local effects inhalation       15252 mg/m3         Acute systemic effects oral       103.4 mg/kg bodyweight/day         PNEC Mater       PNEC Aqua, fresh water         PNEC Aqua, intermittent fresh water       10 mg/L         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC sediment, fresh water       30 g/kg food         22.' (ethylenedioxy) diethanol (112-27-6)       90 g/kg food         DNEL/DMEL additional information       Not derived. Not classified as hazardous for health         PNEC Aqua iftermitien fresh systemic effects, dermal       106 mg/m <sup>3</sup> DNEL/DMEL additional information       Not derived. Not classified as hazardous for health         PNEC Aqua iftermitien fresh water       106 mg/m <sup>3</sup> DNEL/DMEL upditional information       Not derived. Not classified as hazardous for health         PNEC Agua iftermitien fresh water       106 mg/m <sup>3</sup> Long term systemic effects, dermal       106 mg/m <sup>3</sup> Long term systemic effects, dermal       106 mg/m <sup>3</sup> Long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup>		
Long term systemic effects dermal       125 mg/kg bodyweight/day         long term local effects dermal       2823 mg/cm <sup>2</sup> long term systemic effects inhalation       12 mg/m3         long term local effects inhalation       15252 mg/m3         Acute systemic effects oral       103 mg/kg bodyweight/day         PNEC Water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         PNEC Aqua, intermittent fresh water       10 mg/L         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Sediment, fresh water       Not derived. Not classified as hazardous for health         PNEC Additional information       Not derived. Not classified as hazardous for health         PNEC Additional information       Not derived. Not classified as hazardous for health         PNEC Jong term - systemic effects, dermal       06 mg/m <sup>3</sup> Long term systemic effects, dermal       06 mg/m <sup>3</sup> Long term systemic effects, inhalation       60 mg/m <sup>3</sup> Long term systemic effects, inhalation       12 mg/m <sup>3</sup> Long term systemic effects, inhalation       12 mg/kg bodyweight/day         Long term		
long term local effects dermal       2823 mg/cm <sup>2</sup> long term systemic effects inhalation       12 mg/m3         long term local effects inhalation       15252 mg/m3         Acute systemic effects oral       103.4 mg/kg bodyweight/day         PNEC Aqua, fresh water       10 mg/L         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Sediment       90 g/kg dwt         PNEC sediment, marine water       3.65 mg / kg dwt         PNEC sediment, marine water       3.65 mg / kg dwt         PNEC sediment, marine water       3.65 mg / kg dwt         PNEC sediment, marine water       3.65 mg / kg dwt         PNEC oral, secondary poisoning       90 g/kg food         .22'-(ethylenedioxy) diethanol (112-27-6)		
long term systemic effects inhalation       12 mg/m3         long term local effects inhalation       15252 mg/m3         Acute systemic effects oral       103.4 mg/kg bodyweight/day         PNEC Water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         PNEC Aqua, intermittent fresh water       10 mg/L         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Sediment       36.5 mg / kg dwt         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Agua, intermittent fresh water       36.5 mg / kg dwt         PNEC Agua, bit formation       Not derived. Not classified as hazardous for health         PNEC Additional information       Not derived. Not classified as hazardous for health         PNEC Adverkers)       Iong term - systemic effects, dermal       106 mg/kg bodyweight/day         Long term systemic effects inhalation       60 mg/m 3       Iong term systemic effects, inhalation         DNE		
long term local effects inhalation       15252 mg/m3         Acute systemic effects oral       103.4 mg/kg bodyweight/day         PNEC Water          PNEC Aqua, fresh water       10 mg/L         PNEC Aqua, marine water       1 mg/L         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Sediment          PNEC Sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Sediment, fresh water       90 g/kg food         2,2'-(ethylenedioxy) diethanol (112-27-6)          DNEL/DMEL additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEC daditional information       Not derived. Not classified as hazardous for health         PNEC Markers)           Long term - systemic effects, dermal       106 mg/kg bodyweight/day         Long term - systemic effects inhalation       60 mg/m³         DNEL/DMEL (General Population)          Acute, local effects, inhalation       12 mg/m³         Long term systemic effects,	-	
Acute systemic effects oral 103.4 mg/kg bodyweight/day PNEC Vater PNEC Aqua, fresh water 10 mg/L PNEC Aqua, marine water 100 mg/L PNEC Aqua, marine water 100 mg/L PNEC Aqua, intermittent fresh water 100 mg/L PNEC Sediment PNEC Sediment fresh water 36.5 mg / kg dwt PNEC Sediment, marine water 3.65 mg / kg dwt PNEC Sediment, marine water 3.65 mg / kg dwt PNEC Sediment, marine water 3.65 mg / kg dwt PNEC Sediment, marine water 3.65 mg / kg dwt PNEC Sediment, marine water 3.65 mg / kg dwt PNEC Oral, secondary poisoning 90 g/kg food 2,2'-(ethylenedioxy) diethanol (112-27-6) DNEL/DMEL additional information Not derived. Not classified as hazardous for health PNEC additional information Not derived. Not classified as hazardous for nealth PNEC additional information Not derived. Not classified as hazardous for environment 2,2'-oxybisethanol' diethylene glycol (111-46-6) DNEL/DMEL (Workers) Long term - systemic effects, dermal 106 mg/kg bodyweight/day Long term local effects inhalation 44 mg/m <sup>3</sup> DNEL/DMEL (General Population) Acute, local effects, inhalation 12 mg/m <sup>3</sup> long term systemic effects, inhalation 12 mg/m <sup>3</sup> PNEC Water PNEC Aqua, fresh water 10 mg/L Revision No Original Page 7 of 17		
PNEC Water       10 mg/L         PNEC Aqua, fresh water       1 mg/L         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Sediment       100 mg/L         PNEC Sediment       36.5 mg / kg dwt         PNEC Sediment, fresh water       3.65 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Sediment, marine water       3.65 mg / kg dwt         PNEC Oral, secondary poisoning       90 g/kg food         2,2'-(ethylenedioxy) diethanol (112-27-6)       DNEL/DMEL additional information         Not derived. Not classified as hazardous for health       PNEC additional information         Not derived. Not classified as hazardous for newironment       2,2'-oxybisethanol' diethylene glycol (111-46-6)         DNEL/DMEL (Workers)       I06 mg/kg bodyweight/day         Long term - systemic effects, dermal       106 mg/m <sup>3</sup> Long term systemic effects inhalation       44 mg/m <sup>3</sup> DNEL/DMEL (General Population)       12 mg/m <sup>3</sup> Long term systemic effects, inhalation       12 mg/m <sup>3</sup> Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Aqua, fresh water       10 mg/L         Revision No Original       Page 7 of 17		
PNEC Aqua, fresh water       10 mg/L         PNEC Aqua, marine water       1 mg/L         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Sediment       36.5 mg / kg dwt         PNEC sediment, fresh water       36.5 mg / kg dwt         PNEC Sediment, marine water       36.5 mg / kg dwt         PNEC sediment, marine water       36.5 mg / kg dwt         PNEC Oral, secondary poisoning       90 g/kg food         2,2' (ethylenedioxy) diethanol (112-27-6)       DNEL/DMEL additional information         Not derived. Not classified as hazardous for health       PNEC additional information         Not derived. Not classified as hazardous for newironment       2,2'-oxybisethanol' diethylene glycol (111-46-6)         DNEL/DMEL (Workers)       I06 mg/kg bodyweight/day       I010 mg/M <sup>3</sup> Long term - systemic effects, dermal       106 mg/kg bodyweight/day       I010 mg/M <sup>3</sup> Long term systemic effects inhalation       44 mg/m <sup>3</sup> I010 mg/M <sup>3</sup> DNEL/DMEL (General Population)       12 mg/m <sup>3</sup> I010 mg/Kg bodyweight/day		103.4 mg/kg bodyweight/day
PNEC Aqua, marine water       1 mg/L         PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Sediment       36.5 mg / kg dwt         PNEC sediment, fresh water       36.5 mg / kg dwt         PNEC sediment, marine water       3.65 mg / kg dwt         PNEC oral, secondary poisoning       90 g/kg food         2,2'-(ethylenedioxy) diethanol (112-27-6)          DNEL/DMEL additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEL/DMEL additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEL additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         DNEL/DMEL (Workers)		4.0 /
PNEC Aqua, intermittent fresh water       100 mg/L         PNEC Sediment       36.5 mg / kg dwt         PNEC sediment, fresh water       3.65 mg / kg dwt         PNEC sediment, marine water       3.65 mg / kg dwt         PNEC Oral, secondary poisoning       90 g/kg food         2,2'-(ethylenedioxy) diethanol (112-27-6)       DNEL/DMEL additional information         Not derived. Not classified as hazardous for health       PNEC additional information         Not derived. Not classified as hazardous for environment       2,2'-oxybisethanol' diethylene glycol (111-46-6)         DNEL/DMEL (Workers)       I06 mg/kg bodyweight/day       I09 mg/kg         Long term - systemtic effects, dermal       106 mg/kg bodyweight/day       I09 mg/kg         Long term systemic effects inhalation       60 mg/m <sup>3</sup> I00 mg/kg       I00 mg/kg         DNEL/DMEL (General Population)       12 mg/m <sup>3</sup> I00 mg/kg bodyweight/day       <	· · · · · · · · · · · · · · · · · · ·	
PNEC Sediment         PNEC sediment, fresh water         36.5 mg / kg dwt         PNEC sediment, marine water         3.65 mg / kg dwt         PNEC oral, secondary poisoning         90 g/kg food         2,2'-(ethylenedioxy) diethanol (112-27-6)         DNEL/DMEL additional information         Not derived. Not classified as hazardous for health         PNEC additional information         Not derived. Not classified as hazardous for environment         2,2'-oxybisethanol' diethylene glycol (111-46-6)         DNEL/DMEL (Workers)         Long term - systemtic effects, dermal         106 mg/kg bodyweight/day         Long term systemic effects inhalation         60 mg/m <sup>3</sup> Long term systemic effects, inhalation         12 mg/m <sup>3</sup> Iong term systemic effects, dermal         12 mg/m <sup>3</sup> Long term systemic effects, inhalation         12 mg/m <sup>3</sup> Iong term systemic effects, inhalation         12 mg/m <sup>3</sup> PNEC Water         PNEC Aqua, fresh water         10 mg/L         Revision No         Original		
PNEC sediment, fresh water       36.5 mg / kg dwt         PNEC sediment, marine water       3.65 mg / kg dwt         PNEC Oral, secondary poisoning       90 g/kg food         2,2'-(ethylenedioxy) diethanol (112-27-6)       00 g/kg food         DNEL/DMEL additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEL additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for environment         2,2'-oxybisethanol' diethylene glycol (111-46-6)       DNEL/DMEL (Workers)         Long term - systemtic effects, dermal       106 mg/kg bodyweight/day         Long term systemic effects inhalation       44 mg/m <sup>3</sup> DNEL/DMEL (General Population)       12 mg/m <sup>3</sup> Acute, local effects, inhalation       12 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup>		100 mg/L
PNEC sediment, marine water       3.65 mg / kg dwt         PNEC Oral, secondary poisoning       90 g/kg food         2,2'-(ethylenedioxy) diethanol (112-27-6)       DNEL/DMEL additional information         Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for nealth         PNEC additional information       Not derived. Not classified as hazardous for nealth         PNEC ditional information       Not derived. Not classified as hazardous for nealth         PNEC additional information       Not derived. Not classified as hazardous for nealth         PNEC ditional information       Not derived. Not classified as hazardous for nealth         PNEC additional information       Not derived. Not classified as hazardous for nealth         PNEC ditional information       Not derived. Not classified as hazardous for nealth         PNEC Mater       106 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> Iong term systemic effects, inhalation       12 mg/m <sup>3</sup> Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         Revision No       Original       Page		
PNEC Oral, secondary poisoning       90 g/kg food         2,2'-(ethylenedioxy) diethanol (112-27-6)       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for environment         2,2'-oxybisethanol' diethylene glycol (111-46-6)       DNEL/DMEL (Workers)         DNEL/DMEL (Workers)       106 mg/kg bodyweight/day         Long term - systemtic effects, dermal       106 mg/m <sup>3</sup> Long term systemic effects inhalation       60 mg/m <sup>3</sup> DNEL/DMEL (General Population)       44 mg/m <sup>3</sup> Acute, local effects, inhalation       12 mg/m <sup>3</sup> long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         PNEC Water       10 mg/L         PNEC Water       10 mg/L		
2,2'-(ethylenedioxy) diethanol (112-27-6)         DNEL/DMEL additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for environment         2,2'-oxybisethanol' diethylene glycol (111-46-6)       DNEL/DMEL (Workers)         Long term - systemtic effects, dermal       106 mg/kg bodyweight/day         Long term systemic effects inhalation       60 mg/m <sup>3</sup> DNEL/DMEL (General Population)       44 mg/m <sup>3</sup> Acute, local effects, inhalation       12 mg/m <sup>3</sup> Long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         Revision No       Original		
DNEL/DMEL additional information       Not derived. Not classified as hazardous for health         PNEC additional information       Not derived. Not classified as hazardous for environment         2,2'-oxybisethanol' diethylene glycol (111-46-6)       DNEL/DMEL (Workers)         Long term - systemtic effects, dermal       106 mg/kg bodyweight/day         Long term local effects inhalation       60 mg/m <sup>3</sup> Long term systemic effects inhalation       44 mg/m <sup>3</sup> DNEL/DMEL (General Population)       21 mg/kg bodyweight/day         Acute, local effects, inhalation       12 mg/m <sup>3</sup> Long term systemic effects, dermal       11 mg/kg bodyweight/day         Long term systemic effects, dermal       12 mg/m <sup>3</sup> PNEL/DMEL (General Population)       12 mg/m <sup>3</sup> Acute, local effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         Revision No       Original       Page       7 of       17		90 g/kg food
PNEC additional information       Not derived. Not classified as hazardous for environment         2,2'-oxybisethanol' diethylene glycol (111-46-6)       DNEL/DMEL (Workers)         Long term - systemtic effects, dermal       106 mg/kg bodyweight/day         Long term local effects inhalation       60 mg/m <sup>3</sup> Long term systemic effects inhalation       44 mg/m <sup>3</sup> DNEL/DMEL (General Population)       12 mg/m <sup>3</sup> Acute, local effects, inhalation       12 mg/m <sup>3</sup> long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         Revision No       Original		
2,2'-oxybisethanol' diethylene glycol (111-46-6) DNEL/DMEL (Workers) Long term - systemtic effects, dermal Long term local effects inhalation Long term systemic effects inhalation DNEL/DMEL (General Population) Acute, local effects, inhalation long term systemic effects, dermal Long term systemic effects, dermal long term systemic effects, inhalation 12 mg/m <sup>3</sup> long term systemic effects, inhalation 12 mg/m <sup>3</sup> PNEC Water PNEC Aqua, fresh water Revision No Original Page 7 of 17		
DNEL/DMEL (Workers)         Long term - systemtic effects, dermal       106 mg/kg bodyweight/day         Long term local effects inhalation       60 mg/m <sup>3</sup> Long term systemic effects inhalation       44 mg/m <sup>3</sup> DNEL/DMEL (General Population)       44 mg/m <sup>3</sup> Acute, local effects, inhalation       12 mg/m <sup>3</sup> long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         Revision No       Original		Not classified as hazardous for environment
Long term - systemtic effects, dermal       106 mg/kg bodyweight/day         Long term local effects inhalation       60 mg/m <sup>3</sup> Long term systemic effects inhalation       44 mg/m <sup>3</sup> DNEL/DMEL (General Population)       44 mg/m <sup>3</sup> Acute, local effects, inhalation       12 mg/m <sup>3</sup> long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         Revision No       Original		
Long term local effects inhalation       60 mg/m³         Long term systemic effects inhalation       44 mg/m³         DNEL/DMEL (General Population)       44 mg/m³         Acute, local effects, inhalation       12 mg/m³         long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m³         PNEC Water       10 mg/L         PNEC Aqua, fresh water       10 mg/L         Revision No       Original		
Long term systemic effects inhalation       44 mg/m <sup>3</sup> DNEL/DMEL (General Population)       44 mg/m <sup>3</sup> Acute, local effects, inhalation       12 mg/m <sup>3</sup> long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         Revision No       Original		
DNEL/DMEL (General Population)         Acute, local effects, inhalation       12 mg/m <sup>3</sup> long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         Revision No       Original		
Acute, local effects, inhalation       12 mg/m <sup>3</sup> long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         Revision No       Original         Page       7 of       17	Long term systemic effects inhalation	44 mg/m <sup>°</sup>
long term systemic effects, dermal       21 mg/kg bodyweight/day         Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         Revision No       Original         Page       7 of       17		1 2
Long term systemic effects, inhalation       12 mg/m <sup>3</sup> PNEC Water       10 mg/L         Revision No Original       Page       7 of       17	Acute, local effects, inhalation	
PNEC Water     10 mg/L       PNEC Aqua, fresh water     10 mg/L       Revision No     Original     Page     7 of     17	long term systemic effects, dermal	
PNEC Aqua, fresh water     10 mg/L       Revision No     Original     Page     7 of     17	Long term systemic effects, inhalation	12 mg/m <sup>3</sup>
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	PNEC Aqua, fresh water	
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MATERIAL SAFETY DATA SHEET	
PNEC Aqua, marine water	1 mg/L
PNEC Aqua, intermittent fresh water	10 mg/L
PNEC Sediment	- 0
PNEC sediment, fresh water	20.9 mg / kg dwt
PNEC sediment, marine water	2.09 mg / kg dwt
PNEC Soil	
PNEC soil	1.53 mg / kg dwt
PNEC STP	
PNEC Sewage treatment plant	199.5 mg / kg dwt
1,1'-iminodipropan-2-ol; di-isopropanolamine (110-97-4)	
DNEL/DMEL (Workers)	
Long term - systemtic effects, dermal	5 mg/kg bodyweight/day
Long term systemic effects inhalation	6.4 mg/m <sup>3</sup>
DNEL/DMEL (General Population)	
long term systemic effects, oral	1.3 mg/kg bodyweight/day
long term systemic effects, dermal	21 mg/kg bodyweight/day
Long term systemic effects, inhalation	6.3 mg/kg bodyweight/day
PNEC Water	
PNEC Aqua, fresh water	0.278 mg/L
PNEC Aqua, marine water	0.028 mg/L
PNEC Aqua, intermittent fresh water	2.777 mg/L
PNEC Sediment	
PNEC sediment, fresh water	2.33 mg / kg dwt
PNEC sediment, marine water	0.233 mg / kg dwt
PNEC Soil	
PNEC soil	0.303 mg / kg dwt
PNEC STP	
PNEC Sewage treatment plant	15000 mg / L
Occupational Exposure Limit (OEL) for the came chamical OL	

Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average(TWA) or a 15 minute shortterm exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

## **Control Banding**

No additional information available

# EXPOSURE CONTROLS

# **Appropriate Engineering Controls**

Ensure good ventilation of the work station. Minimize exposure to mists/vapours/aerosol. Measure concentrations regularly, and at the time of any change occuring in conditions, likelty to have consequences on worker's exposure

## PERSONAL PROTECTIVE EQUIPMENT (for industrial or professional use)

Gloves, Protective clothing, safety glasses, safety shoes or boots

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## Personal Protective Equipment (Synbol(s):







Eye/Face Protection	Safety gkass DIN EN 166
Skin Protection	Long sleeved overalls. If necessary, refer to EN 340 and related standards
	for definition of characteristcs and performance according to the
	risk rating of the area. Wash contaminated clothing before use
	for protective gloves include:
Hand Protection	Protective gloves, adequate materials, nitrile (NBR) or PVC with a protection
	index >5 (permeation time > 240 min). Use gloves respecting all the
	conditions and within the limits set by the manufacturer. Replace gloves
	immeidately in case of cuts, holes or other signs of damages or degradation
	If necessary refer to the EM 374 staneards. Thickness of glove mtl >0,4 mm
	Personal hygiene is a key element for an effective hand care. Gloves must
	be worn only with clean hands. After wearing of gloves, hands must be
	carefully washed and dried
Respiratory	No respiratory protection is normally required with sufficient ventilation
Protection	Indepependtly from other substances action (technical modifications,
	operating procedures, and other means to limit the expsoure of workers)
	personal protection equipment can beused according to necesssity. Open
	or well ventialted spaces; if product is handled without adequate
	containkent; use full or half face masks with adequate filter for mists and
	organic vapours. (En 136/140/145). Closed or confined areas (ex tank
	interiors), the use of protection measures for airways (masks or self
	contained breathing apparatus) must be assessed according to the specific
	activity, as well as level and duration of predicted exposure (EN 136/140/145)
	Combination filter device (DIN EN 141). Combined gas/dust mask with
	filter type A Filter P (White)
Thermal Hazards	None in normal use conditions
Environmental exposure c	ontrols

#### **Environmental exposure controls**

Stoage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed

# **Consumer expsoure controls**

Ensure adequate ventilation. No special requirements necessary, if handled at room temp

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES				
Attention: The data below are typical values and do not constitute a specification				
Color	Pale yellow, red (coloured)			
Physical State	Liquid			
Odor	Characteristic			
Odor Threshold	No data available			
рН	7-11.5 (J 1703)			
Vapor Pressure	≤ 0.13 kPa (20 deg C)			
Boiling Point	260 deg C (D 1120)			
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#### MATERIAL SAFETY DATA SHEET Solubility Soluble in water **Freezing Point** < -70 deg C, D 1177 No data available **Melting Point** kg/L @ 20°C (Typical) Density 1.06 Viscosity > 2 cst at 100 deg C Not applicable for mixutures Log Kow **Evaporation Rate** No data available No data available **Decomposition Temperature** Octanol/Water Partition Coefficient No data available **VOC Content** 0% (EU, CH) Flammability Not flammable **Explosive properties** None Oxidising properties None Explosive limits None Lower explosion limit 1.5% Volume Upper explosiion limit None Autoignition temperature Not determined Log Kow Not determined **Relative density** Not determined Not determined Relative vapour density at 20 deg C Particle characteristics Not determined **Other information** Information with regard to physical hazard classes No additional information available Other safety characteristics Relative evaporation rate (butylacetate=1) Negligible. No other data available SECTION 10 - STABILITY AND REACTIVITY Reactivity This mixuture does not offer any further hazard, except what is reported in the following paragraphs **Chemical Stability** Stable prdouct according to its intrinsic properties Incompatibility with Other Materials: Strong oxidants and acids Hazardous decomposition Products: Oxygenated compounds (aldehydes etc.). CO2/ CO Possibility of Hazardous reactions None (in normal conditions of storage and handling). **Conditions to avoid** Over heating Hazardous decomposition products Under normal conditions of storage and use, hazardous products should not be produced; thermal decomposition may produce toxic fumes SECTION 11 - TOXICOLOGIAL INFORMATION (mixture) Not classified (based on available data, the classification criteria are not met) Acute toxicity (oral) Acute toxicity (dermal) Not classified (based on available data, the classification criteria are not met) Acute toxicity (inhalation) Not classified (based on available data, the classification criteria are not met) Additional Information According to composition - the EG presnt in this formulation may cause Skin Corrosion/Irritation intoxication, central nervous sytem depression (incoordination/dizziness) respiratory failure, liver and kidney damage. The effects may be delayed The toxic (fatal) dose for pure EG has been estimated at 1.4 ml/kg wt (about 100 ml) for an adult person Revision No Original Page 10 of 17 **Revision Date** 25/07/2023 Product DOT 3 AND DOT 4 BRAKE FLUIDS

MATERIAL SAFETY DATA SHEET 2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glyco	l monobutyl ether (143-22-6)		
LD 50 Oraal rat	5000-11300 mg/kg of body weight		
LD 50 dermal rabbit	3540 mg/kg of body weight		
C 50 Inhalation rat         2.4 mg// (4 hours ) 16H			
Ethanediol ; Ethylene glycol (107-21-6)			
LD 50 Oraal rat	16 kl/kg		
LD 50 dermal rabbit	16 kl/kg		
LC 50 Inhalation rat	5,2 mg// (4 hours ) 16H		
2,2'-oxybisethanol' diethylene glycol (111-46-6)			
LD 50 Oraal rat	12565 mg/kg of body weight		
LD 50 dermal rabbit	11890 mg/kg of body weight		
1,1'-iminodipropan-2-ol; di-isopropanolamine (110-97-4)			
LD 50 Oraal rat	>2000 mg/kg of body weight		
LD 50 dermal rabbit	8000 mg/kg of body weight		
Skinc orrosion/irritation Not classified (based on avai	lable data, the classification criteria are not met)		
pH 7to 11.5			
Additional information According to composition	on		
Serious eye damage/irritation Not classified (based on avail	lable data, the classification criteria are not met)		
pH 7to 11.5			
Additional information According to composition	on		
Respiratory or skin sensitization Not classified (based on avail	lable data, the classification criteria are not met)		
Additional information According to composition	on		
This product contains compo	onents with a specific concentration limit (SCL)		
Germ cell mutagenicity Not classified (based on avai	tagenicity Not classified (based on available data, the classification criteria are not met)		
Additional information According to composition	on		
arcinogenicity Not classified (based on available data, the classification criteria are not met)			
Additional information According to composition			
Additional information According to composition	on		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycom	on I monobutyl ether (143-22-6)		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycoLOAEL (oral, rat, 90 days)	on I <b>monobutyl ether (143-22-6)</b> 1000-1200 mg/kg of body weight/day		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycoLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycoLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day 1000-4000 mg/kg of body weight/day		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycoLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycoLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)Ethanediol ; Ethylene glycol (107-21-6)	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day 1000-4000 mg/kg of body weight/day 120-152.52 mg/l air		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycolLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)Ethanediol ; Ethylene glycol (107-21-6)LOAEC (inhalation, rat, dust/mist/fune, 90 days)	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day 1000-4000 mg/kg of body weight/day 120-152.52 mg/l air 494 mg/l		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycolLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)Ethanediol ; Ethylene glycol (107-21-6)LOAEC (inhalation, rat, dust/mist/fune, 90 days)NOAEC (inhalation, rat, vapour, 90 days)	I monobutyl ether (143-22-6)         1000-1200 mg/kg of body weight/day         250-400 mg/kg of body weight/day         1000-4000 mg/kg of body weight/day         120-152.52 mg/l air         494 mg/l         100-750		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycoLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)Ethanediol ; Ethylene glycol (107-21-6)LOAEC (inhalation, rat, dust/mist/fune, 90 days)NOAEC (inhalation, rat, vapour, 90 days)Aspiration hazardNot classified (based on	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day 1000-4000 mg/kg of body weight/day 120-152.52 mg/l air 494 mg/l 100-750 available data, the classification criteria are not met)		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycolLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)Ethanediol ; Ethylene glycol (107-21-6)LOAEC (inhalation, rat, dust/mist/fune, 90 days)NOAEC (inhalation, rat, vapour, 90 days)NOAEC (inhalation, rat, vapour, 90 days)Aspiration hazardAdditional informationAccording to composition	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day 1000-4000 mg/kg of body weight/day 120-152.52 mg/l air 494 mg/l 100-750 available data, the classification criteria are not met)		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycolLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)Ethanediol ; Ethylene glycol (107-21-6)LOAEC (inhalation, rat, dust/mist/fune, 90 days)NOAEC (inhalation, rat, vapour, 90 days)NOAEC (inhalation, rat, vapour, 90 days)Aspiration hazardNot classified (based on According to compositionSCOPE DOT 3 OR DOT 4 BRAKE FLUID	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day 1000-4000 mg/kg of body weight/day 120-152.52 mg/l air 494 mg/l 100-750 available data, the classification criteria are not met) on		
Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycolLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)Ethanediol ; Ethylene glycol (107-21-6)LOAEC (inhalation, rat, dust/mist/fune, 90 days)NOAEC (inhalation, rat, vapour, 90 days)NOAEC (inhalation, rat, vapour, 90 days)Aspiration hazardNot classified (based on Additional informationSCOPE DOT 3 OR DOT 4 BRAKE FLUIDViscosity kinematic	on I monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day 1000-4000 mg/kg of body weight/day 120-152.52 mg/l air 494 mg/l 100-750 available data, the classification criteria are not met)		
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Additional informationAccording to composition2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycolLOAEL (oral, rat, 90 days)NOAEL (oral rat 89 days)NOAEL (dermal, rat/rabbit, 90 days)NOAEC (inhalation, rat, dust/mist/fune, 90 days)Ethanediol ; Ethylene glycol (107-21-6)LOAEC (inhalation, rat, dust/mist/fune, 90 days)NOAEC (inhalation, rat, vapour, 90 days)Aspiration hazardNOAEC (inhalation, rat, vapour, 90 days)Aspiration hazardNot classified (based on Additional informationAccording to compositionSCOPE DOT 3 OR DOT 4 BRAKE FLUIDViscosity kinematicInformation on other hazardsThis mixture does not contain substance(s) included in the lis Article 59(1) of REACH for having endocrine disrupting proper endocrine disrupting properties in accordance with the criter Delegated Regular (EU) 2017/2100or Commission Regulation greater than 000000000000000000000000000000000000	In monobutyl ether (143-22-6) 1000-1200 mg/kg of body weight/day 250-400 mg/kg of body weight/day 1000-4000 mg/kg of body weight/day 120-152.52 mg/l air 494 mg/l 100-750 available data, the classification criteria are not met) on >2 mm2/s (100 deg C) t established in accordance with rties, or is not idenfieid as having ia set out in Commission (EU) 2018/605 at a concentratiom 0.1%		

MATERIAL SAFETY DATA SHEET			
symptoms	due to defatting effect. Inhalation of vapours may casue respiratory		
	irritation, ingetions may cause nausea, vomitting and diarrhea. Avoid all		
	eye and skin contact and do not breathe vapour and mist		
Other information	None		
SECTION 12 - ECOLOGICAL INFO	<b>PRMATION</b>		
ECOTOXICITY/Ecolory-General	This product is not considered harmful to the aquatic organisms nor to cause		
	long term adverse effects in the environment.		
	An uncontrolled release to the environment may nevertheless produce a		
	release to the environment may nevertheless produce a		
	contamination of different environmental compartments (soil,		
	underground, surface water bodies, aquifers). Handle according		
	to general working hygiene practices to avoid pollution and		
	release into the environment.		
Ecology - Water `	Not classified (based on available data, the classification criteria are not met)		
Short term (acute) and			
long term (Chronic)	Not classified (based on available data, the classification criteria are not met)		
2-2 (2 butoxyethoxy) ethoxyet	anol; tegbe; triethylene glycol monobutyl ether (143-22-6)		
LC 50 fish 1	2-15 mg/l		
LC 50 fish 2			
EC50 Daphnia 1	500-3141,g/l (EC 10 - 48 H)		
NOEC Chronic algae	204.5 mg/l (30d)		
EC 50 72h ; algae `	500-3211 mg/l		
NOEC Chronic crustacea	314 mg/l (30d)		
NOEC (Chronic) fish	411 mg/l		
Ethanediol ; Ethylene glycol (10	17-21-6)		
LC 50 fish 1	10000 mg/l		
LC 50 fish 2			
EC50 Daphnia 1	10000 mg/l		
EC 50 96h ; algae `	20518 mg/l		
NOEC Chronic crustacea	1 mg/l (23 d)		
2,2'-oxybisethanol' diethylene	glycol (111-46-6)		
LC 50 fish 1	>1000 mg/l		
LC 50 fish 2			
EC50 Daphnia 1	>15000 mg/l (24 H)		
1,1'-iminodipropan-2-ol; di-iso	propanolamine (110-97-4)		
LC 50 fish 1	1466 mg/l		
EC50 Daphnia 1	277.7 mg/l (24 H)		
EC 50 72h ; algae `	399 mg/l		
PERSISTENCE AND DEGRADAB	LITY		
SCOPE DOT3/DO4 BRAKE FLUI	)S		
Persistence and degradability	The most significant constituents of the product shuld be		
	considered as 'readily biodegradable'		
<b>BIO ACCUMULATIVE POTENTIA</b>	L		
SCOPE DOT3/DO4 BRAKE FLUI	)S		
Log Kow	Not applicable for mixtures		
Log POW	Not applicable for mixtures		
Bioaccumulative Potential	Bioaccumulation unlikely		
Revision No Original	Page 12 of 17		
Revision Date 25/07/2023	-		

2.2' cov/subsethanol' diethylene glycol (111-46-6)         Log Kow       -1.36         Mobility in Soil       SCOPE DOT3/DOA BRAKE FLUIDS         Mobility in Soil       Not determined         Ecology Soil       No data available         Results of PBT and vPvB assessment       SCOPE DOT3/DOA BRAKE FLUIDS         This substance/mixture does not meet the PBT criteria of REACH regulation, Annex XIII       Results of PBT-vPVB assessment         SCOPE DOT3/DOA BRAKE FLUIDS       The components inthis formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered ;Not persistent' in the environment according to the REACH Annex XIII criteria (Point 1.1)         ENDOCROINE DISRUPTING PROPERTIES       This mixture does not contain substance(s) included in the list established in accordance with Article \$9(1) of REACH for having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties) in accordance with the criteria set out in Commission         Delegated Regular (EU) 2017/2000 c Commission Regulation (EU) 2018/050 at a concentratiom greater than 0.1%         Other adverse effects       None         Additional information       No other effects known         SECTION 13 - DSPOSAL CONSIDERATIONS         Waste treatment Do not dispose of the product, either new or used, by dumping on the ground, or discharging industrial situlate to antimations         Product/Packing       European Waste Catalogue code (s) (0 (2) Gision 2001/118/(E): 16 01 13* (brake fluids)	MATERIAL SAFETY	DATA SHEET			
Log Kow       -1.36         Mobility in Soil       Not determined         Ecology Soil       Not data available         Results of PBT and vPvB assessment       SCOPE DDT3/DO4 BRAKE FLUIDS         SCOPE DDT3/DO4 BRAKE FLUIDS       This substance/mixture does not meet the PBT criteria of REACH regulation, Annex XIII         This substance/mixture does not meet the VPvB criteria of REACH regulation, Annex XIII       Results of PBT-VpVB assessment         The components inthis formulation do not meet the criteria for classification as PBT or VPvB. The product should be considered ;Not persistent' in the environment according to the REACH annex XIII criteria (Point 1.1)         ENDOCROINE DISRUPTING PROPERTIES       The components inthis formulation do not meet the criteria for classification as PBT or VPvB. The product should be considered ;Not persistent' in the environment according to the REACH annex XIII criteria (Point 1.1)         ENDOCROINE DISRUPTING PROPERTIES       This mustance does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties in accordance with the criteria set out in Commission         Delegated Regular (EU) 2017/2100or Commission Regulation (EU) 2018/05 at a concentration greater than 0.1%         Other adverse effects       None effects known         Sectional Information       No other effects known         Sectional Information       Sout desploin dustrial soilis, Sludge should be incinerated, contained or			l (111-46-6)		
Mobility in Soil           SCOPE DOT3/D04 BRAKE FLUIDS           Mobility in Soil         Not determined           Ecology Soil         No data available           Results of PBT and vPvB assessment         SCOPE DOT3/D04 BRAKE FLUIDS           This substance/mixture does not meet the VPG criteria of REACH regulation, Annex XIII         This substance/mixture does not meet the VPG criteria of REACH regulation, Annex XIII           Results of PBT-VpVB assessment         The components inthis formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification as PBT or vPvB. The product should be considered classification and technology inductrial should be content as the responsibility of choosing the right to a qualified official collector seewage disposed Do not apply inductrial should be incinerated, contaline or consideration relaimed Dispose of the product,		, ,,		-1.36	
SECOPE DOT3/DO4 BRAKE FLUIDS Mobility in soil Coclogy Soil No data available Results of PBT and vPVB assessment SECOPE DOT3/DO4 BRAKE FLUIDS This substance/mixture does not meet the VPI criteria of REACH regulation, Annex XIII This substance/mixture does not meet the vPVB criteria of REACH regulation, Annex XIII This substance/mixture does not meet the vPVB criteria of REACH regulation, Annex XIII Results of PBT-VpVB assessment The components inthis formulation do not meet the criteria for classification as PBT or VPVB. The product should be considered ;Not persistent' in the environment according to the REACH Annex XIII criteria (Point 1.1) ENDOCROINE DISRUPTING PROPERTIES This mixture does not contain substance(s) included in the list established in accordance with Article S9(10) REACH for having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regular (EU) 2017/21000r Commission Regulation (EU) 2018/605 at a concentratiom greater than 0.1% Other adverse effects None Additional information No other effects known SECTION 13 - DISPOSAL CONSIDERATIONS Waste treatment Do not dispose of the product, either new or used, by dumping on the ground, or discharging methods into seweres, turnels, lakes or water courses. Deliver to a qualified official collector Sewage disposal Do not apply industrial sludge to natural solis. Sludge should be incinerated, contained or considerations relaimed Dispose of fin a safe manner in accordance with local and national regulations Product/Packing European Ubspose of fin a safe manner in accordance with local and attonal regulations The user has the responsibility of choosing the right EWC code, considering the acutal use of the product, alterations and contaminations Additional Do not cut, weld, bore, burn or incinerate emptied containers, unless they have been cleaned information and takes into account the original composition of the product alist intended use. The user has					
Ecology Soil       No data available         Results of PBT and vPvB assessment       SCOPE DOT3/OOA BRAKE FUUIDS         This substance/mixuture does not meet the vPvB criteria of REACH regulation, Annex XIII       This substance/mixuture does not meet the vPvB criteria of REACH regulation, Annex XIII         Results of PBT-VpVB assessment       The components inthis formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered ;Not persistent' in the environment according to the REACH Annex XIII criteria (Point 1.1)         ENDOCROINE DISRUPTING PROPERTIES       Annex XIII criteria (Point 1.1)         ENDOCROINE DISRUPTING PROPERTIES       Annex XIII criteria (Point 1.1)         ENDOCROINE DISRUPTING PROPERTIES       Monte adverse effects       None         Additional information       No Abter effects known       Seconcentration         SECTION 13 - DISPOSAL CONSIDERATIONS       Seconcentration       Seconcentration         Waste treatment       Do not adipose of the product, either new or used, by dumping on the ground, or discharging into severes, tunnels, lakes or water courses. Deliver to a qualified official collector or consideration       Seconcentration         Second casi-       This EVC code is only ageneral indication       Additional information       Additional information         Into severes, tunnels, lakes or water courses. Deliver to a qualified official collector       Seconcentration       Seconcentration         ignosal consi-		BRAKE FLUIDS			
Results of PBT and vPvB assessment         SCOPE DOT3/D04 BRAKE FUUIDS         This substance/mixture does not meet the PBT criteria of REACH regulation, Annex XIII         This substance/mixture does not meet the vPVB criteria of REACH regulation, Annex XIII         Results of PBT-VpVB assessment       The components inthis formulation do not meet the criteria for classification as PBT or vP08. The product should be considered ;Not persistent' in the environment according to the REACH Annex XIII criteria [Point 1.1]         ENDOCROINE DISRUPTING PROPERTIES       The components intreview of the should be considered information as PBT or vP08. The product should be considered as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties, or is	Mobility in soil	-			
Results of PBT and vPvB assessment         SCOPE DOT3/DOA BRAKE FLUIDS         SCOPE DOT3/DOA BRAKE FLUIDS         This substance/mixture does not meet the VPB criteria of REACH regulation, Annex XIII         This substance/mixture does not meet the VPB criteria of REACH regulation, Annex XIII         Results of PBT-VpVB assessment       The components inthis formulation do not meet the criteria for classification as PBT or VPB. The product should be considered ;Not persistent' in the environment according to the REACH Annex XIII criteria [Point 1.1]         ENDOCROINE DISRUPTING PROPERTIES       This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties in accordance with the criteria set out in Commission         Delegated Regular (EU) 2017/2100or Commission Regulation (EU) 2018/605 at a concentratiom greater than 0.1%         Other adverse effects       None         Additional information       No other effects known         SECTION 13 - DISPOSAL CONSIDERATIONS       Waste treatment         Waste treatment       D ont dispose of the product, either new or used, by dumping on the ground, or discharging methods         into       seware support as as femamer in accordance with local and national regulations         Product/Packing       Uropean Waste Catalogue code (s) (Decision 2001/118/CE): 16 01 13* (brake fluids)         disposal consi-       This EWC code is only a general ind	•		No c	lata available	
This substance/mixuture does not meet the PBT criteria of REACH regulation, , Annex XIII This substance/mixuture does not meet the PPB criteria of REACH regulation, Annex XIII Results of PBT-VpVB assessment The components inthis formulation do not meet the criteria for classification as PBT or VpVB. The product should be considered ;Not persistent' in the environment according to the REACH Annex XIII criteria (Point 1.1) ENDOCROINE DISRUPTING PROPERTIES This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regular (EU) 2017/2100or Commission Regulation (EU) 2018/605 at a concentratiom greater than 0.1% Other adverse effects None Additional information No other effects known SECTION 13 - DISPOSAL CONSIDERATIONS Waste treatment Do not dispose of the product, either new or used, by dumping on the ground, or discharging into seweres, tunnels, lakes or water courses. Deliver to a qualified official collector Sewage disposal Do not apply industrial sludge to natural solis, Sludge should be incinerated, contained or considerations reclaimed Dispose off the proguct code (s) (Decision 2001/18/CE): 16 01 13* (brake fluids disposal consi- This EWC code is only a general indication and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right EWC Code, considering the acutal use of the product, alterations and contaminations Additonal Do not cut, weld, bore, burn or incinerate emptied containers, unless they have been cleaned information and declared asfe Ecology-waste The product as it is does not contain halogenated substances materials EURAL Code 16 01 13* (brake fluids) EVEND 14 - TRANSPORT INFORMATION In accordance with ADR/IMDG/IATA/AND/RID  ON tregulated Not regulated Not regulated Not regulated Not regulated N		d vPvB assessment			
This substance/mixture does not meet the vPvB criteria of REACH regulation, Annex XIII       Results of PBT-VpVB assessment       The components inthis formulation do not meet the criteria for classification as PBT or VPB. The product should be considered ;Not persistent' in the environment according to the REACH Annex XIII criteria (Point 1.1) <b>ENDOCROINE DISTURY PROPERTIES ENDOCROINE DISTURY PROPERTIES</b> This mixture does not contain substance(s) included in the list established in accordance with Article S9(1) of REACH for having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties in accordance with the criteria set out in Commission         Delegated Regular (EU) 2017/21000r Commission Regulation (EU) 2018/605 at a concentratiom         greater than 0.1%       None         Additional information       No other effects known         SECTION 13 - DISPOSAL CONSIDERATIONS         Waste treatment       Do not apply industrial sludge to natural solis; Sludge should be incinerated, contained or considerations reclaimed Dispose of the product, either new or used, by dumping on the ground, or discharging furopersite, tunnels, lakes or water courses. Deliver to a qualified official collector         Sewage disposal       Do not apply industrial sludge to natural solis; Sludge should be incinerated, contained or considerations reclaimed Dispose of the product, alterations and contame with local and national regulations of the up official collector         Seweres, tunnels, lake or water courses. Deliver to a qualified official collector sourses. The prod	SCOPE DOT3/DO4	BRAKE FLUIDS			
Results of PBT-VpVB assessment       The components inthis formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered ;Not persistent' in the environment according to the REACH Annex XIII criteria (Point 1.1)         ENDOCCOINE DISFUTING PROPERTIES       This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties at the criteria set out in Commission         Delegated Regular (EU) 2017/2100or Commission Regulation (EU) 2018/605 at a concentratiom greater than 0.1%       More         Other adverse effects       None         Additional information       No other effects known         SECTION 13 - DISPOSAL CONSIDERATIONS       Sewage disposal         Maste treatment       Do not dispose of the product, either new or used, by dumping on the ground, or discharging methods         into       seweres, tunnels, lakes or water courses. Deliver to a qualified official collector         Sewage disposal       Do not apply industrial sludge to natural soils;. Sludge should be incinerated, contained or considerations         reclaimed       Dispose off in a safe manner in accordance with hocal and national regulations of the product, alterations and containers, unless they have been cleaned information         and takes into account the original composition of the product and its intended use. The product as it is does no	This substance/mi	xuture does not me	eet the PBT criteria of REACH	regulation, , Annex XIII	
classification as PBT or vPvB. The product should be considered ;Not persistent in the environment according to the REACH Annex XIII criteria (Point 1.1)         ENDOCROINE DISRUPTING PROPERTIES         This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties in accordance with the criteria set ou in Commission         Delegated Regular (EU) 2017/2100or Commission Regulation (EU) 2018/605 at a concentratiom greater than 0.1%         None         Additional information       No other effects known         SECTION 13 - DISPOSAL CONSIDERATIONS         Waste treatment       Do not dispose of the product, either new or used, by dumping on the ground, or discharging methods         into       seweres, tunnels, lakes or water courses. Deliver to a qualified official collector considerations         reclaimed       Dispose off in a safe manner in accordance with local and national regulations         Product/Packing       European Waste Catalogue code (s) (Decision 2001/118/CE): 16 01 13* (brake fluids disposal consi.         disposal consi       The product as it is does not contain halogenated substances         Matteriation       and declared safe         Ecology-waste       16 01 13*(brake fluids)         (EWC)       16 01 13*(brake fluids)         (EWC)       16 01 13*(brake fluids)         (EWC)       16 01 13*(br	This substance/mi	xture does not mee	et the vPvB criteria of REACH r	regulation, Annex XIII	
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	FETY DATA SHEET				
Transport ha					
Not regulated		Not regulated	Not regulated	l Not re	egulated
Packing Grou			-		
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Environment			-		
egulated	Not regulated	Not regulated	Not regulated	l Not re	egulated
	utions for user:				
Overland trai	•	Not regulated			
Fransport by		Not regulated			
Air transport		Not regulated			
Inland waterway transport Not regulated					
Rail transport		Not regulated			
Maritime tra	nsport in bulk according to	IMO instruments			
BC Code		Not applicabl	e		
	REGULATORY INFORMAT	ION (Mixture)			
EU Regulation					
	n list (reach Annex XVIII)				
Reference co		Entry title or descr	•		
3(b)	2-2 (2 butoxyethoxy)	Substances or mixuture	-	-	-
	ethoxyetanol; tegbe;	hazard classes or categ			
	triethylene glycol	1272/2008. Hazard clas			ual
	monobutyl ether (143-22		-	effects other	
	6)	than narcotic effects, 3			
-	s are inlcuded in the REAC				
	ubstances listed on REAH A	•	•		
	ubstances listed on the PIC	list (Regulation EO 640/2	2012) concerning the e	xport and import	
of hazardous					
	ubstances listed on the PO		-		
	ubstances listed on the Oz	one depletion list (Regula	tion EU 1005/2009 on	substances that	
deplete the o					
	ubstances listed on the exp	plosive precursors list (Re	gulation EU 2019/1148	s on the marketing	
	plosive precursors)				
	ation, restriction and prohi	•	4000/45/50	4007/2006	00/004/055
EC No. 1907/2			1999/45/EC	1907/2006	89/931/CEE
89/654/CEE	89/655,		90/270/CEE	90/394/CEE	90/679/CEE
93/88/CEE	95/63/0		98/24/CE	99/38/CE	99/92/CE
2001/45/CE	2003/10		2012/18/CE	2004/42/CE	98/24/EC
98/25/CE	1005/20		79/117/EEC	649/2012	d 4b a
	ubstances listed on the Dru				u the
•	ket of certain substances u	ised in the illicit manufac	ture of arcotic drums a	and psychotropic	
substances	lations				
National Regu		analaa baalah aral aaf			
•	otion of EU Directives conce	•	•		
	onal laws of protection of t				
=	otion of EU directives conce			ng dangerous	
substances (2	012/18/CE). Relevant natio	onaliaws on prevention of	water pollution		
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## Chemical safety assessment

This mixture is classified as not hazardous according to regulation EC 1272/2008 (CL{)

No chemcail safety assessment has been carried out

A chemical safety assessment has been carried out for the following components of this mixture:

2-2 (2 butoxyethoxy) ethoxyetanol; tegbe; triethylene glycol monobutyl ether (143-22-6)

Ethanediol ; Ethylene glycol (107-21-6)

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

1,1'-iminodipropan-2-ol; di-isopropanolamine (110-97-4)

## SECTION 16 - OTHER INFORMATION

Indication of Changes

SECTION 16	Changed item	Change	Notes
	Adverse health effects caused by endocrine		
	disrupting properties		
	SDS EU format according to commission		
	regulation EU 2020/878		
3	Composition/information on ingredients	Modified	
9.1	Odor	Modified	
9.1	Vapourpressure at 50 deg C	Added	
9.1	Upper explosive limit (UEL)	Added	
12.4	Mobility in Soil	Added	
12.6	Adverse effects on the environment caused	Added	
	by endocrine disruption properties		

## ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT

TLV - Treshold Limit Value	TWA - Time weighted average	
STEL - Short term exposure limit	PEL - Permission expsoure limit	
GHS - Globally Harmonized System CAS - Chemical abstract service number		
AC	IMO/IM	
API - American Petroleum Institute	SDS - Safety Data Sheet	
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)	
DOT - Department of Transport	NTP - National Toxicology Program (USA)	
IARC - International agency for research on cancer	OSHA -	
NCEL - New chemical exposure limit	EPA - Environmental Protection Agency	
SCBA - Self contained breathing apparatus	NA - Not applicable	
ND Not available	CSR - Chemical Safety Report	
DNEL - Derived No effect Level DMEL - Derived Minimum Effect Level		
EC - 50 - Effective Concentration , 50% EL50 - Effective Loading, 50%		
IC 50 - Inhibition concentration, 50% LC 50 - Lethal concentration, 50%		
LD 50 -Lethal dose, 50% LL50 - Lethal loading, 50%		
LOAEL - Low observed adverse effects level	NOEL - No observed effects level	
NOAEL No observed adverse effects level	OECD Organization for economic co-op and devmt	
PNEC Predicted no effect concentration	PBT - Predicted, bioaccumulative, toxic	
STOT - Single Target Organ Toxicity STOT - RE (above) with repeated exposure		
STOT - SE (Above) with single exposure vPvB - Very persistent, very bioaccumulative		
UVCB - susbtance of unkonw or variable composition, complex r		
WAF - Water accommodated fraction		
ADN - European agreement concerning the international carriag	e of dangerous goods by	
inward waterways		
ADR- European agrement concerning the international carriage	of dangerous goods by	
road		
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ATE - Acute Toxicity estimate

BCF-Bioconcentration factor

 ${\sf CLP}\ {\sf - classification\ labelling\ packaging\ refulation\ {\sf -regulation\ EC\ No.\ 1272/2008}}$ 

IATA - Internatinal air transport association

IMDG - Internation maritime dangerous goods

NOAEC - no observed adverse effect concentration

NOEC No observed effect concentration

REACH - Registration, authorisation and restriction of chemicals, regulations No 1907/2006

RID - regulation concerning the international carriage of dangerous goods by railways

STP - sewage treatment plant

Data sources This safety data sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers

Training Advice - Provide adequate training to professional operators for the use of PPEs,

according to the information contained in this safety data sheet

Other information: Do not use the product for any purposes that have not been advised by the manufacturer

# Full text of R-, H- and EUH-phrases

Acute Tox 4 (Oral)	Acute Toxicity (oral), category 4	
Aquatic acute 1	Hazardous to the aquatic environment - acute Hazard, category 1	
Aquatic chronic 1	Hazardous to the aquatic environment - CHronic Hazard, category 1	
Aquatic chronic 2	Hazardous to the aquatic environment - CHronic Hazard, category 2	
Aquatic chronic 3	Hazardous to the aquatic environment - CHronic Hazard, category 3	
Aquatic chronic 4	Hazardous to the aquatic environment - CHronic Hazard, category 4	
Eye Dam 1	Serious eye damage/eye irritation, category 1	
Eye Irrt. 2	Serious eye damage/eye irritation, category 2	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit.2	Skincorrosion/irritation, category 2	
Skin Sens. 1B	Sensitisation - Skin, category 1B	
H 302	Harmful if swallowed	
H 315	Causes Skin Irritation	
H 317	May cause an allergic skin reaction	
H 318	Causes serious eye damage	
H 319	Causes serious eye irritation	
H 361f	Supsected of damaging fertility	
H 400	Very toxic to acquatic life	
H 410	Very toxic to acquatic life with long lasting effects	
H 411	Toxic to acqualic life with long lasting effects	
Full text of R-, H- and EU	I-phrases (continued)	
H 412	Harmful to aquatic life with long lasting effects	
H 413	May cause long lasting effects to aquatic life	
R 22	Harmful if swallowed	
R 36/38	Irritating to eyes/skin	
R 38	Irritating to skin	
R 41	Risk of serious damage to eyes	
R 43	May cause sensitization by skin contact	
R 50/53	Very toxic to aquatic organisms, may cause long term adverse effects to them	
R 51/53	Toxic to aquatic organisms, ,may cause long term adverse effects	
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R 53	May cause long term adverse effects in the aquatic environment
R 62	Possible risk of impaired fertility
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful
Classification and	ocedure used to deliver the classification for mixtures according to

regulation EC 1272/2008 (CLP) Acute Tox 4 (Oral) as per H 302

Calculation method

STOT RE 2 as per H 373

Calculation method

Prepared as per to the 29 CFR 1910.1200 (2012) and EU by United Grease and Lubricants Co LLC, PO

Box 2685, Ajman, United Arab Emirates. Meets EU No. 2015/830 regulations also