MOTOREX Oil of Switzerland
Revision: 28.03.2023

Printing date 29.01.2024

Version number 4.3

#### 1 Identification

- · Product identifier
- · Trade name: BRAKE FLUID DOT 4
- Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.

· Application of the substance / the mixture

Only for proper handling.

Brake fluid

- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

**MOTOREX AG** 

Bern-Zürich-Strasse 31, Postfach

CH-4901 Langenthal Tel. +41 (0)62 919 75 75

www.motorex.com

A1 Accessory Imports

60-62 Burchill St.

Loganholme

4129 QLD

Australia

Phone: 07 3451 1300

- · Further information obtainable from: msds@motorex.com
- · Emergency telephone number:

In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

### 2 Hazard(s) Identification

· Classification of the substance or mixture

Serious eye damage/irritation - Category 2A H319 Causes serious eye irritation.

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

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms





GHS07 GHS08

- · Signal word Warning
- · Hazard-determining components of labelling:

Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate

· Hazard statements

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

· Precautionary statements

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

P102 Keep out of reach of children.

P103 Read label before use.

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

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

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

international regulations.

· Other hazards

· Results of PBT and vPvB assessment

· **PBT**: Not applicable. · **vPvB**: Not applicable.

#### 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 30989-05-0 EINECS: 250-418-4	Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate Repr. 2, H361	≥10-≤50%
CAS: 143-22-6 EINECS: 205-592-6 Index number: 603-183-00-0	2-[2-(2-butoxyethoxy)ethoxy]ethanol Eye Dam. 1, H318	≥25-<30%
CAS: 9004-77-7 NLP: 500-012-0	Butyl Polyglycol Eye Irrit. 2, H319	10%
CAS: 111-46-6 EINECS: 203-872-2 Index number: 603-140-00-6	2,2'-oxybisethanol Acute Tox. 4, H302	≥0-≤10%
CAS: 111-77-3 EINECS: 203-906-6 Index number: 603-107-00-6	2-(2-methoxyethoxy)ethanol Repr. 1B, H360; Flam. Liq. 4, H227	≥0-<3%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8	2-(2-butoxyethoxy)ethanol Eye Irrit. 2, H319	≥0-≤3%

Additional information: For the wording of the listed hazard phrases refer to section 16.

#### 4 First Aid Measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Remove residues with soap and water.

Remove contaminated clothing immediately.

· After eye contact:

Rinse opened eye for several minutes under running water.

Consult a physician if irritation develops.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Do not induce vomitting. Do not take in resorption stimulating agents.

Consult a physician who will decide on need and method of emptying the stomach.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

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 Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Fire Fighting Measures

- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

#### 6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and Storage

- · Handling:
- · Precautions for safe handling Open and handle receptacle with care.
- · Information about fire and explosion protection: Keep respiratory protective device available.
- Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

The recommended storage temperature is (deg.C): ≤50°C

Keep container tightly sealed.

- · Storage class: 10
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see section 7.

· Additiona	· Additional information about design of technical facilities: No further data; see section 7.			
· Ingredien	· Ingredients with limit values that require monitoring at the workplace:			
111-46-6	2,2'-oxybisethanol			
WES Lon	g-term value: 100 mg/m³, 23 ppm			
DNELs	DNELs			
30989-05-	30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate			
Oral	DNEL/general population/Systemic effects/Long-term	4.1 mg/kg/24h (consumer)		
Dermal	DNEL / Workers / Systemic effects / Long-term	8.3 mg/kg/24h (worker)		
	DNEL/general population/Systemic effects/Long-term	4.1 mg/kg/24h (consumer)		
Inhalative	DNEL / Workers / Systemic effects / Long-term	29.1 mg/m3 (worker)		

DNEL/general population/Systemic effects/Long-term | 7.2 mg/m3 (consumer)

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143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	(Contd. of p
0ral	DNEL/general population/Systemic effects/	Long-term 50.25 mg/kg/24h (consumer)
Orai	DNEL/general pop/Systemic effects/acute-s	
Dermal		
Dennai	DNEL / Workers / Local Effects / Long-term	
	DNEL / Workers / Systemic effects / Long-t	
	DNEL/Workers/Systemic effects/acute-sho	
	DNEL/Workers/local effects/acute-short ten	, ,
	DNEL/general popul/Local effects/acute-sh	
	DNEL/general population/Systemic effects/	Long-term 200 mg/kg/24h (consumer)
	DNEL/general pop/Systemic effects/acute-s	short term   502.5 mg/kg/24h (consumer)
	DNEL/general population/Local effects/Long	g-term 2.823 mg/cm2 (consumer)
	DNEL/general population/Local effects/Long	g-term mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-t	erm 24 mg/m3 (worker)
	DNEL/Workers/Systemic effects/acute-sho	
	DNEL/Workers/Local effects/acute-short te	, , ,
	DNEL / Workers / Local Effects / Long-term	
	DNEL/general population/Systemic effects/	,
	DNEL/general pop/Systemic effects/acute-s	,
	DNEL/general pop/Local effects/acute-shor	
	DNEL/general population/Local effects/Long	
111-46-6	2,2'-oxybisethanol	75.252 mg/mb (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-t	erm 43 mg/kg/24h (worker)
Dermai	DNEL/general population/Systemic effects/	
Inhalativa		
IIIIaialive	DNEL / Workers / Systemic effects / Long-t	
	DNEL / Workers / Local Effects / Long-term	, , ,
	DNEL/general population/Systemic effects/	
== 0	DNEL/general population/Local effects/Long	g-term 12 mg/m3 (consumer)
	2-(2-methoxyethoxy)ethanol	7.5 // ./04/- /
Oral .	DNEL/general population/Systemic effects/	
Dermal	DNEL / Workers / Systemic effects / Long-t	,
	DNEL/general population/Systemic effects/	_ong-term   1.33 mg/kg/24h (consumer)
	2-(2-butoxyethoxy)ethanol	
Oral	DNEL/general population/Systemic effects/	
Dermal	DNEL / Workers / Systemic effects / Long-t	
	DNEL/general population/Systemic effects/	
Inhalative	DNEL / Workers / Systemic effects / Long-t	erm 67.5 mg/m3 (worker)
	DNEL/Workers/Local effects/acute-short te	rm 101.2 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term	67.5 mg/m3 (worker)
	DNEL/general population/Systemic effects/	Long-term 40.5 mg/m3 (consumer)
	DNEL/general pop/Local effects/acute-shor	t term 60.7 mg/m3 (consumer)
	DNEL/general population/Local effects/Lon	, , ,
PNECs		
	0 Tris[2-[2-(2-methoxyethoxy)ethoxy] eth	yl] orthoborate
		2112 mg/l (aquatic organisms)
FINE		

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	PNEC/Aquatic org/intermittent	(Contd. of page 2 112 mg/l (aquatic organisms)
	releases(freshwater)	2.172 mg/1 (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	100 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	0.76 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.076 mg/kg (aquatic organisms)
143-	22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol	
	PNEC / Predators / Secondary poisoning	525.5 mg/kg food (secondary poisonir (predators))
	PNEC / Aquatic organisms / Freshwater	100 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	142.57 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	
	PNEC / Aquatic organisms / Sediment (freshwater)	11.115 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	1.111 mg/kg (aquatic organisms)
111-	46-6 2,2'-oxybisethanol	
	PNEC / Aquatic organisms / Freshwater	10 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	1 mg/l (aquatic organisms)
	PNEC/Aquatic org/intermittent releases(freshwater)	10 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	199.5 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	20.9 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	2.09 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	1.53 mg/kg (terrestrial organisms)
111-	77-3 2-(2-methoxyethoxy)ethanol	
Oral	PNEC / Predators / Secondary poisoning	90 mg/kg food (secondary poisonir (predators))
	PNEC / Aquatic organisms / Freshwater	12 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	1.2 mg/l (aquatic organisms)
	PNEC/Aquatic org/intermittent releases(freshwater)	12 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	10,000 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	44.4 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.44 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	2.1 mg/kg (terrestrial organisms)
112-	34-5 2-(2-butoxyethoxy)ethanol	
	34-5 2-(2-butoxyethoxy)ethanol PNEC / Predators / Secondary poisoning	56 mg/kg food (secondary poisoning (predators)) 1.1 mg/l (aquatic organisms)



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PNEC / Aquatic organisms / Marine water
PNEC/Aquatic organisms/Sewage treatment
plant/STP
PNEC / Aquatic organisms / Sediment
(freshwater)
PNEC / Aquatic organisms / Sediment
(marine water)
PNEC / Terrestrial organism / Soil

(Contd. of page 5)

0.11 mg/l (aquatic organisms)

4.4 mg/kg (aquatic organisms)

0.44 mg/kg (aquatic organisms)

0.32 mg/kg (terrestrial organisms)

- Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately. Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Goggles recommended during refilling
- · Body protection: Protective work clothing

#### 9 Physical and Chemical Properties

· General Information

· Appearance:

· Form: Fluid

Colour: Amber coloured
Odour: Characteristic
Odour threshold: Not determined.
pH-value at 20 °C: 7-11.5 (DIN 51369)

· Change in condition

· Melting point/freezing point: <-50 °C

· Initial boiling point and boiling range: >260 °C (DIN EN ISO 3405)

Flash point: >100 °C
 Flammability (solid, gas): Not applicable.
 Auto-ignition temperature: >300 °C (DIN 51794)
 Decomposition temperature: Not determined.

• Explosive properties: Product does not present an explosion hazard.

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· Explosion limits:

Lower: Not determined.
Upper: Not determined.
Vapour pressure: Not determined.

• **Density at 20 °C:** 1.02-1.07 g/cm³ (ASTM D 4052)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

Solubility in / Miscibility with

• water: Fully miscible.

· Partition coefficient: n-octanol/water: <2

· Viscosity:

• Dynamic: Not determined.
 • Kinematic: 5-10 mm²/s @ 20 °C
 20 mm²/s @ 40 °C

Solvent separation test:

*VOC (EC)* 0.00 %

• Other information No further relevant information available.

### 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:			
30989-05-	30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate		
Oral	LD50	2,000 mg/kg (rat)	
	NOAEL	1,000 mg/kg/24h (rat)	
Dermal	LD50	2,000 mg/kg (rat)	
143-22-6	2-[2-(2-buto	xyethoxy)ethoxy]ethanol	
Oral	LD50	5,000-11,300 mg/kg (rat)	
	NOAEL	250-400 mg/kg/24h (rat)	
	LOAEL	1,000-1,200 mg/kg/24h (rat)	
Dermal	LD50	3,540 mg/kg (rabbit)	
	NOAEL	200-4,000 mg/kg/24h (rat)	
		1,000 mg/kg/24h (rabbit)	
Inhalative	LC50 / 16h	2.4 mg/l (rat)	
	NOAEL	94 mg/m3 (rat)	
	NOAEC	120-152.52 mg/m3 (rat)	
	NOEC	40 mg/m3 (rat)	
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111-46-6	111-46-6 2,2'-oxybisethanol		
Oral	LD50	1,000 mg/kg (rat)	
	NOAEL	10,000 mg/kg (rat)	
	NOAEL	128-300 mg/kg/24h (rat)	
	LOAEL	40,000 mg/kg (rat)	
Dermal	LD50	13,300 mg/kg (rabbit)	
	NOAEL	2,200-4,400 mg/kg/24h (dog)	
Inhalative	LC50 / 4h	>4.6 mg/l (rat)	
111-77-3	2-(2-methox	yethoxy)ethanol	
Oral	LD50	7,128-8,188 mg/kg (mouse)	
	NOAEL	900 mg/kg/24h (rat)	
	LOAEL	1,800 mg/kg/24h (rat)	
Dermal	LD50	9,404 mg/kg (rabbit)	
	NOAEL	40 mg/kg/24h (guinea pig)	
Inhalative	NOAEC	1.06 mg/l (rat)	
112-34-5	112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD50	2,410-5,530 mg/kg (mouse)	
	NOAEL	250 mg/kg/24h (rat)	
Dermal	LD50	2,764 mg/kg (rabbit)	
	NOAEL	200-2,000 mg/kg/24h (rat)	
Inhalative	NOAEL	14 ppm (rat)	

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Suspected of damaging fertility or the unborn child.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## 12 Ecological Information

· Toxicity

· Aquati	c toxicity:
30989-	05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate
LC50	222-1,010 mg/l/96h (fish)
LC50	222-1,010 mg/l/48h (fish)
LC50	222-1,010 mg/l/72h (aquatic organisms)
LC50	222-1,010 ppm/96h (fish)
EC10	224.4 mg/l (algae)
EC10	500 mg/l/48h (aquatic invertebrates)
EC50	211-960 mg/l/24h (aquatic invertebrates)
EC50	224-1,020 mg/l/72h (algae / cyanobacteria)
EC0	500 mg/l/48h (aquatic invertebrates)
EC50	211-960 mg/l/48h (aquatic invertebrates)
EC50	224.4 mg/l (algae)
NOEC	224-1,020 mg/l/72h (algae / cyanobacteria)
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		toxyethoxy)ethoxy]ethanol	
		7 mg/l/96h (fish)	
	2,150 mg/l/9	• •	
	4,600 mg/l/9	• •	
		mg/l/48h (aquatic invertebrates)	
	2,400 mg/l/4	• •	
		mg/l/24h (fish)	
		mg/l/21d (aquatic invertebrates)	
		.5 mg/l/24h (aquatic invertebrates)	
		ng/l/72h (algae / cyanobacteria)	
		ng/l/72h (algae / cyanobacteria)	
	•	21d (aquatic invertebrates)	
EC0	•	h (aquatic invertebrates)	
		mg/l/48h (aquatic invertebrates)	
	174.6 mg/l/2	mg/l/21d (aquatic invertebrates)	
	•	,	
	62.3-499 mg	g/l/72h (algae / cyanobacteria)	
	75.2 mg/l/96		
	1,500 mg/l/2	•	
	•	/24h (aquatic invertebrates)	
	_	0 mg/l/96h (algae / cyanobacteria)	
		/21d (aquatic invertebrates)	
	_	0 mg/l/21d (aquatic invertebrates)	
		h (algae / cyanobacteria)	
	•	0 mg/l/7d (aquatic invertebrates)	
71020		00 mg/l/7d (fish)	
111-77-		oxyethoxy)ethanol	
	5,741 mg/l/9		
	_	h (aquatic invertebrates)	
	•	96h (algae / cyanobacteria)	
	•	18h (aquatic invertebrates)	
		xyethoxy)ethanol	
	1,300 mg/l/s		
EC50	100 mg/l/96	h (algae / cyanobacteria)	
EC50	1,101 mg/l/2	<sup>7</sup> 2h (algae / cyanobacteria)	
	_	h (aquatic invertebrates)	
NOEC	100 mg/l/96	h (algae / cyanobacteria)	
NOEC	100 mg/l/48	h (aquatic invertebrates)	
		egradability No further relevant information availation and information availation mental systems:	ble.
	umulative p	-	
143-22-	6 2-[2-(2-bu	toxyethoxy)ethoxy]ethanol	
Partition	n coefficient	0.51 [] (log Kow) (Bioaccumulation)	
<b>D</b> ' '	radability	85 % (28d) (Biodegradability) (OECD 301 A)	

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1	111-46-6 2,2'-oxybisethanol		
Partition coefficient	≤1.98 [] (log Kow) (Bioaccumulation)		
Biodegradability	90-100 % (28d) (Biodegradability) (OECD 301 A)		
111-77-3 2-(2-meth	noxyethoxy)ethanol		
Partition coefficient	≤0.47 [] (log Kow) (Bioaccumulation)		
Biodegradability	>75 % (28d) (Biodegradability)		
112-34-5 2-(2-buto	112-34-5 2-(2-butoxyethoxy)ethanol		
Partition coefficient	1 [] (log Kow) (Bioaccumulation)		
	95 % (28d) (Biodegradability) (OECD 301 C)		

- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pHvalues. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number	
ADG, ADN, IMDG, IATA	Not classified as hazardous for transport
UN proper shipping name	
ADG, ADN, IMDG, IATA	Not classified as hazardous for transport
Transport hazard class(es)	
ADG, ADN, IMDG, IATA	
Class	Not classified as hazardous for transport
Packing group	
ADG, IMDG, IATA	Not classified as hazardous for transport

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· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Ann Marpol and the IBC Code	nex II of Not applicable.
· UN "Model Regulation":	Not classified as hazardous for transport

#### 15 Regulatory information

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

IIIIXtui C	mixture			
· Australia	· Australian Inventory of Industrial Chemicals			
All ingred	All ingredients are listed.			
· Standard	d for the Uniform Scheduling of Medicines and Poisons	3		
	2,2'-oxybisethanol	S5, S6, S10		
111-77-3	2-(2-methoxyethoxy)ethanol	S6, S10		
112-34-5	112-34-5 2-(2-butoxyethoxy)ethanol S5			
· Australia	· Australia: Priority Existing Chemicals			
None of t	None of the ingredients is listed.			

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

- · purity requirement
- · Relevant phrases

H227 Combustible liquid.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

H361 Suspected of damaging fertility or the unborn child.

- · Department issuing SDS: Abteilung Produktsicherheit
- · Contact:
- · Abbreviations and acronyms:

Flam. Liq. 4: Flammable liquids - Category 4

Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A

Repr. 1B: Reproductive toxicity - Category 1B Repr. 2: Reproductive toxicity – Category 2

\* Data compared to the previous version altered.