

HTC 64T

According to Annex II of Reg. EC 1907/2006, as amended by Reg. EU 878/2020

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SECTION 1: Identificati	on of the substance/mixture and of	the company/undertaking	l
1.1. Product identifier			
Commercial name:	HTC 64T		
1.2. Relevant identified u	uses of the substance or mixture and use	es advised against	
Relevant identified uses:	High temperature brake fluid.		
Uses advised against:	Uses other than those identified as relevant		
1.3. Details of the supplie	er of the safety data sheet		
Company: Address:		Brembo S.p.A. Via Brembo, 25 Curno (BG) 24035 ITALY	
Telephone number:		+39 035 605 1111	
E-mail address for a compet	ent person responsible for the Safety Data Sh	eet: SDS@brembo.it	
1.4. Emergency telephon	e number		

Company emergency number:BREMBO S.p.A.+39 035 605 1111 from 8.30 to 17.30 (CET - Italian and English)

If the person should lose consciousness, call the single emergency number **112**.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture meets the criteria for classification in accordance with Regulation (EC) No 1272/2008 and its amendments.

Hazard pictogram(s)	Hazard class(es) and category(ies)	Hazard statement(s)
GHS 08	Repr. 2	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

2.2. Label elements

Label in accordance with Regulation (EC) No 1272/2008 and its amendments:

Hazard pictogram(s):



Signal word(s):

WARNING

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Hazard stateme	nt(s):	H361fd	Suspected of damaging fertility	v. Suspected of damaging the unborn child.
Precautionary st	atement(s):	P202	Do not handle until all safety p	recautions have been read and understood.
P280		Wear protective gloves / protective clothing / eye protection / face protection.		
		P308 + P313	IF exposed or concerned: Get r	nedical advice / attention.
		P405	Store locked up.	
		P501	Dispose of contents/container regulation.	in accordance with local / regional / national / international

Contains: Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate.

2.3. Other hazards

The mixture does not contain substances at a concentration equal to or greater than 0,1% by weight, known to be:

- PBT and/or vPvB according to Annex XIII of REACH ;
- included in the Candidate list for having endocrine disrupting properties (art. 59(1));
- identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation EU 2100/2017 or Commission Regulation EU 605/2018.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not relevant.

3.2. Mixtures

Substance	Concentration % w/w (Conc. = X)	Classification according to Reg. EC 1272/2008 (CLP) and its amendments	
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate		Repr. 2, H361fd	
EC Number: 250-418-4	80 ≤ X ≤ 95		
CAS Number: 30989-05-0			
REACH Registration Number: 01-2119462824-33-XXXX			

The full text of the hazard statements is available in section 16.

The mixture does not contain any other substances classified as hazardous pursuant to Reg. EC 1272/2008 (CLP) and its amendments or, if present, they are so in such a quantity that they do not have to be declared pursuant to Annex II of Reg. EC 1907/2006 (REACH), as amended by Regulation EU 878/2020.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of exposure, refer to the following first aid measures:

Route of exposure via inhalation:	Ventilate the room. If a person feels sick, immediately remove the patient from the contaminated environment and keep him at rest in a well-ventilated environment. If recovery is not rapid, seek medical attention.
Route of exposure via skin:	Remove contaminated clothing. Wash the areas of the body that have come into contact with the product with water, and possibly soap. Skin cleanser can be used. DO NOT use solvents or thinners. In skin irritation occurs, get medical advice/attention.
Route of exposure via eyes:	Remove contact lenses. Wash immediately and abundantly with running water, with eyelids open, for at least 20 minutes; In case of eye irritation, consult a doctor. Do not use eye drops or ointments of any kind before the visit or advice of the ophthalmologist.

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Route of exposure via ingestion: Exposure by ingestion is unlikely in normal conditions of use. However, if it should this happen, consult a doctor. In the event that the subject loses consciousness or shows symptoms of discomfort following ingestion, do not administer anything unless directed by the doctor. If medical attention is delayed, give adults 90-120 ml hard liquor such as 40% v/v spirits. Give children proportionately less at a rate of 2 ml/kg body weight.

In all cases of doubt, or when symptoms persist, seek medical attention.

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

No acute and/or delayed effects are known.

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

In case of symptoms and illness due to exposure to the product, contact a doctor. Bring this safety data sheet and/or the label.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, dry chemical powder, carbon dioxide, water mist.

Unsuitable extinguishing media: Watejets.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters. In case of combustion, avoid breathing the fumes as harmful gases could be released (CO_x , NO_x).

5.3. Advice for firefighters

Use respiratory protection. Safety helmet and full protective clothing. Water spray can be used to protect people engaged in firefighting. It is also advisable to use self-contained breathing apparatus, especially if you work in closed and poorly ventilated places and in any case if you use halogenated extinguishers (fluobrene, solkane 123, naf, etc.). It is possible to cool the containers with jets of water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:Move away from the area surrounding the spill or release. Not smoking. Wear a mask, gloves, and
protective clothing according to section 8.For emergency responders:Wear a mask, gloves, and protective clothing. Eliminate all open flames and possible sources of ignition.
Not smoking. Provide adequate ventilation. Evacuate the danger area and, if necessary, consult an expert.

6.2. Environmental precautions

Keep away from drains, water, and soil. Advise authorities if spilled material has entered water courses or sewer or has contaminated soil or vegetation.

6.3. Methods and material for containment and cleaning up

Containment:	Limit liquid spillage and collect using granular absorbent or similar materials (sand, earth, vermiculite,
	diatomaceous earth or spill control material). Collect and place in a labelled sealable container for
	subsequent safe disposal.
Clean-up:	Flush contaminated area with plenty of water. Wherever it is possible, cleaning should be performed with
	normal cleaning agents. Avoid use of solvents. Put leaking containers in a labelled drum or overdrum.
	Do not pour the water used to clean the contaminated material and the site where the product spill occurred
	directly into the sewer. Follow the local regulations in force.

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6.4. Reference to other sections

Refer to sections 8 and 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid any method of handling that generates mists or aerosols. Avoid direct contact with the product. Do not eat, drink or smoke when handling this product. See section 8 for information on personal protection.

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7.2. Conditions for safe storage, including any incompatibilities

Keep it in the original container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in open or unlabeled containers. Keep the containers in a vertical and safe position avoiding the possibility of falls or collisions. Store in well-ventilated place, avoid moisture, and keep far away from sources of heat and direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate: Suitable materials for containers are Aluminum, Stainless steel 1.4439, High density polyethylene (HDPE). Prevent ingress of water to maintain quality.

7.3. Specific end use(s)

The product is intended for vehicles. It is a high temperature brake fluid. Users are referred to the specification SAE J1707 "Service maintenance of brake fluids".

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL - Occupational Exposure Limits:

The product does not contain substances with a national or an European occupational exposure limit.

DNEL and PNEC:

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate (CAS 30989-05-0)					
Workers					
Route of exposure	Type of effect	DNEL – Derived No Effect Level			
Inhalation	Systemic effects - Long term exposure	14,8 mg/m ³			
	Systemic effects - Acute/short term exposure	No hazard identified			
	Local effects - Long term exposure	No hazard identified			
	Local effects - Acute/short term exposure	No hazard identified			
Dermal	Systemic effects - Long term exposure	4,2 mg/kg bw/day			
	Systemic effects - Acute/short term exposure	No hazard identified			
	Local effects - Long term exposure	No hazard identified			
	Local effects - Acute/short term exposure	No hazard identified			
Eyes	Local effects	No hazard identified			
General population	· · ·				
Route of exposure	Type of effect	DNEL – Derived No Effect Level			
Inhalation	Systemic effects - Long term exposure	2,6 mg/m ³			
	Systemic effects - Acute/short term exposure	No hazard identified			

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	Local effects - Long term exposure	No hazard identified	
	Local effects - Acute/short term exposure	No hazard identified	
Dermal	Systemic effects - Long term exposure	1,5 mg/kg bw/day	
	Systemic effects - Acute/short term exposure	No hazard identified	
	Local effects - Long term exposure	No hazard identified	
	Local effects - Acute/short term exposure	No hazard identified	
Oral	Systemic effects - Long term exposure	1,5 mg/kg bw/day	
	Systemic effects - Acute/short term exposure	No hazard identified	
Eyes	Local effects	No hazard identified	
Environment			
	Target	PNEC – Predicted No Effect Concentration	
Freshwater		No hazard identified	
Marine water		No hazard identified	
Sediment (freshwater)		No hazard identified	
Sediment (marine water)		No hazard identified	
STP (Sewage Treatment Plant)		No hazard identified	
Air		No hazard identified	
Soil		No hazard identified	
Secondary poisoning		No potential for bioaccumulation	

8.2. Exposure controls

Do not eat, drink or smoke when handling this product.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

Observe the usual safety measures when handling chemicals. Personal protective equipment must bear the CE marking which certifies their compliance with current regulations on safety, health, and protection.

Personal Protective Equipment:

Eye/face protection:	It is a good practice to wear airtight protective goggles (see standard EN 166).
Skin protection:	
 Hand protection 	It is recommended to protect the hands with chemical-resistant gloves (see standard EN374-1/EN374- 2/EN374-3). For the final choice of the work glove material should be considered: compatibility, degradation, failure time and permeability. Gloves must be replaced immediately in case of damage or signs of wear.
 Other 	During the handling of the product, it is a good practice to wear category professional chemical resistant long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).
Respiratory protection:	It is a good practice to use a type P (FFP) filtering face mask, whose class (1, 2, or 3) and actual need must be defined based on the outcome of the chemical risk assessment (see standard EN 149).
Thermal hazards:	The material is combustible. It burns, but does not ignite readily. Containers may explode when heated. In case of fire, avoid breathing combustion products (CO _x).

ENVIRONMENTAL EXPOSURE CONTROLS:

Use according to good working practices, avoiding dispersal of the product in the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Physical and chemical properties	Value	Determination method / Note
Physical state	Liquid	
Colour	Amber	
Odour	Mild	
Melting point/freezing point	< -50°C	
Boiling point or initial boiling point and boiling range	> 300°C	
Flammability	> 280°C	
Lower and upper explosion limit	Not possible due to the nature of the product.	
Flash point	> 120°C	
Auto-ignition temperature	Not possible due to the nature of the product.	
Decomposition temperature	300°C	
рН	6,5 - 8,0	
Kinematic viscosity	10 – 15 centistokes (20°C)	
Solubility	Completely soluble in water	
Partition coefficient n-octanol/water (log value)	1,5	The product is a mixture.
Vapour pressure	1 mbar	
Density and/or relative density	1,04 – 1,095 g/cm ³	
Relative vapour density	Not possible due to the nature of the product.	
Particle characteristics	Not applicable	The product is liquid.

9.2. Other information

INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

Evaporation rate (*n*-butyl acetate = 100) : 0,01.

OTHER SAFETY CHARACTERISTICS

Information not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

At the normal conditions of use, possible hazardous reactions are not known.

10.4. Conditions to avoid

Avoid high temperature and prolonged exposure to air/oxygen and light.

Tris[2-[2-(2-methoxy)ethoxy]ethyl]orthoborate: High temperature.

10.5. Incompatible materials

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Strong acids, strong basis, strong oxidising agents, and strong reducing agents.

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate: Strong oxidising agents. Strong acids. Strong bases

10.6. Hazardous decomposition products

Due to thermal decomposition or in case of fire, irritating and / or toxic fumes can be released (CO_x, NO_x).

Tris[2-[2-(2-methoxyethoxy]ethoxy]ethyl]orthoborate: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION 11: Toxicological information

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

ACUTE TOXICITY:

The mixture does not meet the classification criteria for this hazard class.

ATE Mix oral $= \infty$ No components classified for Acute Tox., oral.ATE Mix inhalation $= \infty$ No components classified for Acute Tox., inhalation.ATE Mix dermal $= \infty$ No components classified for Acute Tox., dermal.Please note: "No components" may refer to the absence of substances classified for acute toxicity or classified ones with a concentration below the applicable cut-off limits.

Acute toxicity					
Route of exposure	Substance	Species	Method / Source	Result(s)	
Oral	Tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl]ortho borate	Rat	OECD 401	LD50 > 2000 mg/kg bw	
	Tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl]ortho borate	Rat	OECD 402 / EU Method B.3	LD50 > 2000 mg/kg bw	

SKIN CORROSION/IRRITATION:

The mixture does not meet the classification criteria for this hazard class.

Skin corrosion/irritation					
Substance	Species	Method / Source	Result(s)		
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate	Rabbit	OECD 404 / EU Method B.4	Not irritating		

SERIOUS EYE DAMAGE/IRRITATION:

The mixture does not meet the classification criteria for this hazard class.

Serious eye damage/irritation					
Substance	Species	Method / Source	Result(s)		
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate	Rabbit	OECD 405 / EU Method B.5	Not irritating to eyes.		

RESPIRATORY OR SKIN SENSITISATION:

The mixture does not meet the classification criteria for this hazard class.

Respiratory of	Respiratory or skin sensitisation							
Route of	Route of Substance Species Method / Result							
sensitisation			Source					
Dermal	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate	Guinea pig	OECD 406	Not sensitising to the skin				

The mixture does not meet the classification criteria for this hazard class.

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Germ cell mutagenicity				
Substance In		Species	Method / Source	Result(s)
	In vivo			
Tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl]orthoborate	In vitro	S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2	OECD 471	Not mutagenic
Tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl]orthoborate	In vitro	Chinese hamster Ovary (CHO)	OECD 476	Not mutagenic
Tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl]orthoborate	In vitro	Human lymphocytes	OECD 473	Non-clastogenic to human lymphocytes

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CARCINOGENICITY:

The mixture does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY:

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

Reproductive toxicity				
Endpoint	Substance	Species	Method /	Result(s)
			Source	
Toxicity to reproduction				NOAEL(P0) = 300 mg/kg bw/day
	Tris[2-[2-(2-			NOAEL(P1) = 300 mg/kg bw/day
	methoxyethoxy)ethoxy]ethyl]ortho	Rat	OECD 443	NOAEL(F1) = 300 mg/kg bw/day
	borate			NOAEL(F2) = 300 mg/kg bw/day
				LOEC(Overall) = 1000 mg/kg bw/day
Developmental toxicity /	Tris[2-[2-(2-			NOAEL(maternal animals) = 250 mg/kg bw/day
teratogenicity	methoxyethoxy)ethoxy]ethyl]ortho	Rabbit	OECD 414	LOAEL(maternal animals) = 500 mg/kg bw/day
	borate	Rabbil	0ECD 414	NOAEL(fetuses) = 250 mg/kg bw/day
				LOAEL(fetuses) = 500 mg/kg bw/day

<u>SINGLE TARGET ORGAN TOXICITY (STOT)</u> — <u>SINGLE</u> The mixture does not meet the classification criteria for this hazard class. <u>EXPOSURE:</u>

<u>SINGLE TARGET ORGAN TOXICITY (STOT)</u> — <u>REPEATED</u> The mixture does not meet the classification criteria for this hazard class. <u>EXPOSURE:</u>

STOT – Repeated ex	STOT – Repeated exposure						
Route of exposure	Substance	Species	Method / Source	Result			
Oral	Tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl]orthoborate	Rat	OECD 408	NOAEL = 1000 mg/kg bw/day			

ASPIRATION HAZARD:

The mixture does not meet the classification criteria for this hazard class.

11.2. Information on other hazards

ENDOCRINE DISRUPTING PROPERTIES

The mixture does not contain substances at a concentration equal to or greater than 0,1% by weight, known to be:

- included in the Candidate list for having endocrine disrupting properties (art. 59(1));
- identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation EU 2100/2017 or Commission Regulation EU 605/2018.

LONG-TERM EFFECTS – REPRODUCTIVE TOXICITY

This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.



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OTHER INFORMATION

Event	Species	Method / Source	Result
Severe poisoning after accidental pediatric ingestion of glycol ethers	Infant	Publication of several glycol ethers	A young child (22 months old) accidentally consumed a very large dose of brake fluid, which is predominantly composed of triethylene glycol alkyl ethers (where the alkyl is either methyl, ethyl, or butyl). The dose was estimated to be in excess of 20 g/kg. The exposure triggered severe metabolic acidosis and other clinical symptoms briefly requiring intensive care, including hemodialysis, but the patient fully recovered within 3 days with no complications.

Although the product is not classified as hazardous for acute toxicity, if significant amounts are absorbed, there is a risk of renal damage which could lead to kidney failure or even death. Other symptoms of over-exposure include central nervous system effects, abdominal discomfort, metabolic acidosis, and headache or nausea.

SECTION 12: Ecological information

12.1. Toxicity

The product is not toxic to aquatic organisms.

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate (CAS 30989-05-0)							
Endpoint Species Method / Source Result							
Short-term toxicity to fish	Oncorhynchus mykiss	EU Method C.1 /	LC50 > 222,2 mg/L				
		OECD 203					
Short-term toxicity to aquatic invertebrates	Daphnia magna	OECD 202	EC50 > 211,2mg/L				
Toxicity to aquatic algae and cyanobacteria	Pseudokirchneriella	EU Method C.3 /	ErC50 > 224,4 mg/L				
	subcapitata	OECD 201	EbC50 > 224,4 mg/L				
			NOEC = 224,4 mg/L				
Toxicity to microorganisms	Activated sludge	OECD 209 / ISO 8192 /	EC50 > 1000 mg/L				
		EU Method C.11					

12.2. Persistence and degradability

	Degra	adability	Partition coefficie	nt n-octanol/water
	Method / Source	Result(s)	Method / Source	Result(s)
Tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl]orthoborate	OECD 301A / ISO 7827 / 92/69/EEC	Readily biodegradable	therefore an experin cannot be applied. The hydrolysis products Diethylenglycol) have on fragment method of module of soft Log Pow of Triethyle	hydrolytically unstable nental determination e log Pow values of the (Triethylenglycol and been calculated based using KOWWIN (v1.68) ware EPI Suite. nglycol: -1.75 at 25°C nglycol: -1.47 at 25°C

12.3. Bioaccumulative potential

	Bioconcentration factor
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate	The substance has a low potential for bioaccumulation based on LogKow ≤ 3 and it is readily biodegradable. Furthermore, the substance hydrolyzes, showing ready biodegradation and high water solubility.

12.4. Mobility in soil

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	Tris[2-[2-(2-metl	hoxyethoxy)ethoxy]ethyl]orth	noborate	LogKoc = -4,37 (QSAR) Koc at 20 °C: 0,008		

12.5. Results of PBT and vPvB assessment

The mixture does not contain substances at a concentration equal to or greater than 0,1% by weight, known to be PBT and/or vPvB according to Annex XIII of REACH.

	PBT and vPvB assessment
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

The mixture does not contain substances at a concentration equal to or greater than 0,1% by weight, known to be:

included in the Candidate list for having endocrine disrupting properties (art. 59(1));

identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation EU 2100/2017 or Commission Regulation EU 605/2018.

12.7. Other adverse effects

Information not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national regulations on the management of waste.

SECTION 14: Transport information

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

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14.7. Maritime transport in bulk according to IMO instruments

Not relevant.

SECTION 15: Regulatory information

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

Seveso – Directive EC 18/2012	None		
	Substance	Entry(ies)	
Restrictions relating to the product or the contained substances according to Title VIII and Annex XVII of Regulation EC 1907/2006 (REACH) and its amendments	Tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl]orthobo 75 rate (CAS 30989-05-0)		
	The uses of the product do not fall un conditions of the single sub		
Substances of Very High Concern (SVHC) in Candidate List (Art. 59 REACH)	None		
Substances subject to authorization according to Title VII and Annex XIV of Regulation EC 1907/2006 (REACH) and its amendments	None		
Chemicals subject to export notification – Reg. EU 649/2012 (PIC) and its amendments	ts None		
Persistent Organic Pollutants (POPs) – Reg. EU 1021/2019 and its amendments.	s. None		
Substances that deplete the Ozone layer – Reg. EC 1005/2009 and its amendments	None		
Chemical weapons convention - OPCW	None		
Explosives precursors – Reg EU 1148/2019	None		
Drug precursors – Reg. EU 273/2004 and Reg. EU 111/2005 and their amendments	None		

15.2. Chemical safety assessment

No chemical safety assessment has been performed for the mixture.

SECTION 16: Other information

Full text of relevant hazard statements and precautionary statements:

Repr. 2

Reproductive toxicity, category 2

H361fd

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

<u>Acronyms:</u>

- ACGIH: American Conference of Governmental Industrial Hygienists
- ADR: Agreement concerning the carriage of Dangerous goods by Road
- AGS: Ausschuss für Gefahrstoffe German Committee on Hazardous Substances
- BMD: Benchmark Dose
- BMDL05: Benchmark Dose Lower Confidence Limit
- BW: body weight
- CAS NUMBER: Chemical Abstract Service number
- CE NUMBER: Identifier in EINECS (European Inventory of Existing Commercial Chemical Substances) / ELINCS (European List of Notified Chemical Substances)
- CFR: Code of Federal Regulations (USA)
- CLP: Regulation EC 1272/2008
- DFG: Deutsche Forschungsgemeinschaft German Research Foundation
- DNEL: Derived No Effect Level
- DW: dry weight
- EC50: Concentration that affects 50% of the test population

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- EmS: Emergency Schedule
- FHSLA: Federal Hazardous Substances Labeling Act
- FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act (USA)
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration that affects 50% of the test population
- IMDG: International Maritime Code for Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- JSOH: Japan Society for Occupational Health
- LC50: Lethal Concentration that affects 50% of the test population
- LD50: Lethal Dose that affects 50% of the test population
- LOAEL: Lowest Observed Adverse Effect Level
- NIOSH: National Institute for Occupational Safety and Health
- NOAEC: No Observed Adverse Effect Level
- NOEC: No Observed Effect Concentration
- NOEL: No Observed Effect Level
- OEL: Occupational Exposure Level
- OPCW: Organization for the Prohibition of Chemical Weapons
- OSHA: Occupational Safety and Health Administration
- PBT: Persistent, Bioaccumulative, and Toxic according to REACH Regulation
- PEC: Predicted Environmental Concentration
- PEL: Predicted Exposure Level
- PNEC: Predicted No Effect Concentration
- REACH: Regulation EC 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- STEL: Short-Term Exposure Limit
- TLV: Threshold limit value
- TWA: Time-Weighted Average
- vPvB: Very Persistent and very Bioaccumulative according to REACH Regulation

Key literature:

- 1. Regulation EC 1907/2006 (REACH) of the European Parliament and its amendments;
- 2. Regulation EC 1272/2008 (CLP) of the European Parliament and its amendments;
- 3. Regulation EU 878/2020 of the European Parliament;
- 4. Delegated Regulation EU 2100/2017 of European Commissions;
- 5. Regulation EU 605/2018 of European Commissions;
- 6. IFA GESTIS website;
- 7. ECHA website.

Methods of evaluating information:

Application of the criteria for classification for each hazard class or differentiation in Parts 2 to 5 of Annex I of Reg. EC 1272/2008 and its amendments.

Note for the user(s):

The information contained in the present Safety Data Sheet is based on our own knowledge at the date of the last version. Users must verify the suitability and thoroughness of provided information according to the specific use of the product. The product must not be used for purposes other than those indicated in the specific technical documentation without first obtaining written instructions. No responsibility is assumed for any improper use. This document should not be construed as a guarantee of any specific product property. Since the use of the product does not fall under the direct control of Brembo S.p.A., the user is obliged to observe the laws and regulations in force on hygiene, environment, health and safety under his own responsibility.