

Brake fluid DOT3

SAFETY DATA SHEET

according to Regulation No. 1907/2006 (REACH) and Commission Regulation (EU) 2020/878

Version: 5.0
Issue date: 06.09.2012
Revision date: 03.05.2022

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

1.1 Product identifier

Chemical name/ trade name:

Brake fluid DOT3

Producer:

OMA CZ, a.s.

Address:

Stráž pod Ralskem, 47127, Borová 103

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

Intended use: Fluid for car brake systems

Uses advised against: Use should be limited to those listed above.

1.3 Details of the supplier of the safety data sheet

Supplier of SDS:

OMA CZ, a.s.

Address:

Stráž pod Ralskem, 47127, Borová 103

Identification No.:

25406761

Tel:

+420 487 851 637

www:

www.omacz.cz

Responsible person for this SDS:

OMA CZ, a.s., laborator@omacz.cz

1.4 Emergency telephone number

National Poisons Information Service (NPIS), Royal Infirmary of Edinburgh, Edinburgh EH16 4SA, United Kingdom, Tel.: +44 121 507 4123, 844 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product isn't classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictogram(s):

None.

Signal word(s):

None.

Contain:

-

Hazard statement(s):

None.

Precautionary statement(s):

None.

Supplemental information:

EUH208 Contains dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.

2.3 Other hazards

This product does not contain any substances which are classified as PBT or vPvB in a concentration of 0.1% by weight or higher.

This product does not contain SVHC in a concentration of 0.1% by weight or higher.

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

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Name of the component	Content (weight %)	CAS EINECS Index N° Reg. Number	Classification according to Regulation (EC) No. 1278/2008 (CLP)	
Ethanol, 2-butoxy-, manufacture of, by-products from	10 - < 20	161907-77-3 310-287-7	Eye Dam. 1 SCL: C > 30% (Eye Irrit. 2; H319 SCL: 20% ≤ C ≤ 30 %)	H318
2,2'-oxydiethanol	5 - 15	111-46-6 203-872-2 603-140-00-6	Acute Tox. 4 STOT RE 2	H302 H373
2-(2-methoxyethoxy)ethanol *	< 3	111-77-3 203-906-6 603-107-00-6 01-2119475100-52-0000	Repr. 2	H361d
Dihydro-3-(tetrapropenyl)furan-2,5-dione	< 0.1	26544-38-7 247-781-6 01-2119979080-37-0000	Aquatic Chronic 4 Eye Irrit. 2 Skin Sens. 1A SCL: C ≥ 0,1%	H413 H319 H317

** Substance with a Community workplace exposure limit.*

For full text of H-statements see SECTION 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice:

In all cases of doubt, or when feeling unwell, seek medical advice and show this safety data sheet or the label. Do not eat, drink or smoke while working. Follow the principles of personal hygiene. Wash contaminated clothing and wash before reuse.

Inhalation:

Move the affected person to fresh air, keep him calm, avoid hypothermia. Seek medical advice, if any problems occurs.

Skin contact:

Take off contaminated clothing and wash affected with plenty of soap and water.

Eye contact:

Immediately flush eyes with running water, open eyelids. If contact lenses are worn, carefully remove them and continue rinsing, the affected eye wide open from the inner corner to the outer one, so that the other eye is not hit and also under the lids for min. 15 minutes. If symptoms persist, seek professional medical attention.

Ingestion:

Rinse mouth with water, do not induce vomiting. Do not give anything by mouth to an unconscious person; place the person in a stabilized position and seek medical attention immediately.

Protection of first aiders:

Pay attention to personal safety during rescue work.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Ingestion of a few grams may cause digestive upset discomfort. The product causes irritation if ingested in the eyes. May cause redness.

4.3 Indication of any immediate medical attention and special treatment needed

Decontamination. Symptomatic treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

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Suitable extinguishing media:	Foam, extinguishing powder, CO ₂ , water mist.
Unsuitable extinguishing media:	Direct water jet - Fire could spread.

5.2 Special hazards arising from the substance or mixture

Combustion products and hazardous gases: smoke, carbon monoxide, carbon dioxide. Remove closed containers, if possible, near fire and cool with water spray. If heated excessively (fire), containers may explode due to heat.

5.3 Advice for firefighters

Emergency units exposed to smoke or vapors must be equipped with respiratory and eye protection, protective clothing. Self-contained breathing apparatus must be worn when working in confined spaces. Cool containers exposed to fire with water spray. Do not spray water directly into the container to prevent excessive foaming. Collect fire-fighting water separately and prevent it from entering water and soil.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contamination of clothing and footwear with the product and contact with skin and eyes. Wear suitable protective clothing, replace contaminated clothing. Ensure ventilation of the affected area. Keep all persons not involved in rescue operations to a safe distance.

6.2 Environmental precautions

Prevent leakage into the environment, soil, prevent penetration into surface waters and sewers. In case of leakage, immediately inform the watercourse / sewerage administrator and the competent authorities.

6.3 Methods and material for containment and cleaning up

In the event of a leak, locate and, if possible, drain the product or remove it mechanically, withdraw from the water surface. Residues or small amounts should be soaked up in a suitable sorbent (diatomaceous earth, sand) and placed in suitable marked containers and handed over for recycling / disposal in accordance with applicable regulations. Wash with plenty of water.

6.4 Reference to other sections

see sections 7, 8 and 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Use suitable PPE. Use only in well-ventilated areas with fresh air supply. Do not eat, drink or smoke while working. Wash your hands after work. Do not breathe fumes. Observe the legal regulations on occupational safety and health. All fire precautions must be observed during handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers in a dry, cool and well-ventilated place. Store upright to prevent leaks and spillages. Store separately from food, feed and medicines. Protect from fire, hot surfaces and sources of ignition. Prohibition Smoking. take precautions against static electricity.

7.3 Specific end use(s)

see section 1.2

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Exposure limits:	According to national legislation of target country.
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Substance	CAS	Permissible exposure limits (mg/m ³)	Maximum permissible concentration (mg/m ³)	Note
2-(2-methoxyethoxy)ethanol	111-77-3	50.1	-	

Substances with Community Exposure Limits:

Substance	CAS	Limit values (mg/m ³)		Note
		OEL	STEL	
2-(2-Methoxyethoxy)ethanol	111-77-3	50.1	-	Dermal

DNEL

2,2'-oxydiethanol (CAS: 111-46-6)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				
Inhalation	Long-term (chronic)	systemic	mg/m ³	44
	Short-term (acute)	systemic	mg/m ³	60
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	43
Consumers				
Inhalation	Long-term (chronic)	systemic	mg/m ³	12
	Short-term (acute)	systemic	mg/m ³	12
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	21

2-(2-methoxyethoxy)ethanol (CAS: 111-77-3)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				
Inhalation	Long-term (chronic)	systemic	mg/m ³	50.1
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	2.22
Consumers				
Inhalation	Long-term (chronic)	systemic	mg/m ³	30.1
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	1.33
Oral	Long-term (chronic)	systemic	mg/kg bw/d	7.5

Dihydro-3-(tetrapropenyl)furan-2,5-dione (CAS: 26544-38-7)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	0.33

PNEC

2,2'-oxydiethanol (CAS: 111-46-6)

Component of the environment	PNEC	Unit	Value
Freshwater	PNEC _{water, fresh.}	mg/L	10
Freshwater, occasional leakage	PNEC _{water, fresh.}	mg/L	10

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Water environment	Freshwater sediment	PNEC _{sed., fresh.}	mg/kg sediment dw	20.9
	Seawater	PNEC _{water, mar.}	mg/L	1
	Marine sediment	PNEC _{sed., mar.}	mg/kg sediment dw	2.09
Microbiological activity	Wastewater treatment plant	PNEC _{sew. treat.}	mg/L	199.5
Terrestrial environment / organisms	Soil	PNEC _{soil}	mg/kg soil dw	1.53

2-(2-methoxyethoxy)ethanol (CAS: 111-77-3)

Component of the environment		PNEC	Unit	Value
Water environment	Freshwater	PNEC _{water, fresh.}	mg/L	12
	Freshwater, occasional leakage	PNEC _{water, fresh.}	mg/L	12
	Freshwater sediment	PNEC _{sed., fresh.}	mg/kg sediment dw	44.4
	Seawater	PNEC _{water, mar.}	mg/L	1.2
	Marine sediment	PNEC _{sed., mar.}	mg/kg sediment dw	0.44
Microbiological activity	Wastewater treatment plant	PNEC _{sew. treat.}	mg/L	10 000
Terrestrial environment / organisms	Soil	PNEC _{soil}	mg/kg soil dw	2.1
Food chain	Predators	PNEC _{oral.}	mg/kg food	90

Dihydro-3-(tetrapropenyl)furan-2,5-dione (CAS: 26544-38-7)

Component of the environment		PNEC	Unit	Value
Water environment	Freshwater	PNEC _{water, fresh.}	mg/L	0.02
	Freshwater, occasional leakage	PNEC _{water, fresh.}	mg/L	0.2
	Freshwater sediment	PNEC _{sed., fresh.}	mg/kg sediment dw	1.7
	Seawater	PNEC _{water, mar.}	mg/L	0.002
	Marine sediment	PNEC _{sed., mar.}	mg/kg sediment dw	0.17
Microbiological activity	Wastewater treatment plant	PNEC _{sew. treat.}	mg/L	10
Terrestrial environment / organisms	Soil	PNEC _{soil}	mg/kg soil dw	0.2

DNELs and PNECs values for the other components of the mixture haven't been determined.

8.2 Exposure controls

Technical measures:

Technical measures and appropriate working procedures take precedence over personal protective equipment.

Individual protection measures

Respiratory protection:

If the exposure limit values are exceeded or a mist / vapor / aerosol are generated, use a mask with an A / P filter in accordance with EN ISO 14387 + A1.

Hand protection:

Protective work gloves resistant to chemicals according to EN ISO 374.

Eye / face protection:

Wear safety goggles with side shields or face shield, according to EN ISO 166.

Skin protection:

Workwear (EN ISO 13688) and footwear (EN ISO 20347).

Thermal hazards:

Flammable liquid and vapour.

Environmental exposure controls:

Avoid unnecessary releases to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value	Method
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Physical state:	Liquid		
Colour:	Amber		
Odour:	Characteristic		
Odour threshold:	No data available.		
pH :	7 - 10.5 (100%)		
Melting point / freezing point (°C):	--/ < - 50		
Boiling point or initial boiling point and boiling range (°C):	> 260		
Flash point (°C):	No data available.		
Evaporation rate:	No data available.		
Flammability (gases, liquids and solids):	non-flammable liquid.		
Lower and upper explosion limit:	No data available.		
Vapour pressure (20 °C):	No data available.		
Vapour pressure (50 °C):	No data available.		
Relative vapour density:	No data available.		
Density and/or relative density (g/cm ³ , 20 °C):	1.02 - 1.09		
Solubility (20 °C):	No data available.		
Partition coefficient n-octanol/water (log value):	No data available.		
Auto-ignition temperature:	No data available.		
Decomposition temperature:	No data available.		
Kinematic viscosity (mm ² /s):	15 at 20 °C		
Refractive index (20 °C):	No data available.		
Oxidising properties:	No data available.		
Explosive properties:	Unexplosive		

9.2 Other informationVOC (%): 0
Dry matter content: No data available.
Additional information: No data available.**9.2.1 Information with regard to physical hazard classes**

The product has no physical hazards.

9.2.2 Other safety characteristics

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Reacts with strong oxidizing agents.

10.2 Chemical stability

The mixture is stable under recommended use, handling and storage.

10.3 Possibility of hazardous reactions

There is no risk of dangerous reactions when used correctly. Reacts violently with alkali metals to evolve hydrogen.

10.4 Conditions to avoid

Protect from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking

10.5 Incompatible materials

Strong oxidizing agents, strong acids and bases.

10.6 Hazardous decomposition productsThermal decomposition can produce toxic fumes - carbon oxides (CO, CO₂).**SECTION 11: Toxicological information**

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

2,2'-oxydiethanol (CAS: 111-46-6)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
supporting study	16 500 mg/kg bw, LD50	oral: gavage	rat
key study	13 300 mg/kg bw, LD50	dermal	rabbit
key study	> 4.6 mg/L air	inhalation: aerosol	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
weight of evidence	GHS criteria not met	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
OECD 439, weight of evidence	GHS criteria not met	Skin	human skin model

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
key study	GHS criteria not met	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
OECD 407, key study	10 000 mg/kg diet, NOAEL 936 mg/kg bw/day (nominal), NOAEL 40 000 mg/kg diet, LOAEL	oral	rat
OECD 410, key study	2 220 mg/kg bw/day, NOAEL 8 880 mg/kg bw/day	dermal	dog

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
key study	1 210 mg/kg bw/day, NOAEL 1 160 mg/kg bw/day, NOAEL	oral: drinking water	rat

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
disregarded due to major methodological deficiencies	positive	oral: unspecified	rat

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Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
key study	3 060 mg/kg bw/day, NOAEL	oral: drinking water	mouse

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

2-(2-methoxyethoxy)ethanol (CAS: 111-77-3)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 401, key study	7 128 mg/kg bw, LD50 8 188 mg/kg bw, LD50	oral: gavage	mouse
OECD 402, key study	9 404 mg/kg bw, LD50	dermal	rabbit
OECD 403, key study	> 1.2 mg/L air, LC0	inhalation	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
OECD 405, key study	not irritating	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
OECD 404, key study	not irritating	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
OECD 406, key study	not sensitising	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
OECD 407, key study	900 mg/kg bw/day (nominal), NOAEL 1 800 mg/kg bw/day (nominal), LOAEL	oral	rat
OECD 413, key study	> 1 060 mg/m ³ air, NOAEC	inhalation	rat
OECD 411, key study	40 mg/kg bw/day (nominal), NOAEL 200 mg/kg bw/day	dermal	guinea pig

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Carcinogenicity:

Test type	Results	Exposure	Tested organisms
	No data available.		

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 475, weight of evidence	negative	oral: gavage	mouse

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 416, key study	other: ca. 1.25, NOAEL other: ca. 1.25, NOAEL other: 2.5, NOAEL other: ca. 2.5	oral: drinking water	mouse

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

Dihydro-3-(tetrapropenyl)furan-2,5-dione (CAS: 26544-38-7)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 423, key study	2.9 , LD50	oral: gavage	rat
key study	> 6 200 - < 7 500 mg/kg bw, LD100	dermal	rabbit
key study	5 300 mg/m ³ air (nominal), LC50	inhalation: aerosol	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
key study	irritating	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
key study	not irritating	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
OECD 406, key study	Category 1A	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

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STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
key study	50 mg/kg bw/day (nominal), NOAEL	oral	rat

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
	No data available.		

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
	No data available.		

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 421, key study	50 mg/kg bw/day, NOAEL 250 mg/kg bw/day, NOAEL	oral: gavage	rat

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

mixture

Acute toxicity:	The product does not meet the criteria for classification.
Serious eye damage / irritation:	The product does not meet the criteria for classification.
Skin corrosion / irritation:	The product does not meet the criteria for classification.
Respiratory or skin sensitisation:	The product does not meet the criteria for classification.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenicity:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.
Reproductive toxicity:	The product does not meet the criteria for classification.
Aspiration hazard:	The product does not meet the criteria for classification.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

The product does not meet the criteria for classification.

2,2'-oxydiethanol (CAS: 111-46-6)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Pimephales promelas</i>	75 200 mg/L, LC50 / 96 h	

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Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 10 000 mg/L, EC50 / 24 h > 10 000 mg/L, EC100 / 24 h	
Acute toxicity to aquatic algae	<i>Scenedesmus quadricauda</i>	> 10 000 mg/L, other: / 8 d	
Biotic degradation		Readily biodegradable (100%)	
log Kow / log Pow		-1.98 @ 20 °C	

2-(2-methoxyethoxy)ethanol (CAS: 111-77-3)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Pimephales promelas</i>	5 741 mg/L, LC50 / 96 h	
Acute toxicity to invertebrates	<i>Daphnia magna</i>	1 192 mg/L, EC50 / 48 h 688 mg/L, EC10 / 48 h	
Acute toxicity to aquatic algae	<i>Pseudokirchneriella subcapitata</i>	> 1 000 mg/L, EC50 / 96 h 1 000 mg/L, EC0 / 96 h	OECD 201
Biotic degradation		Readily biodegradable (100%)	
log Kow / log Pow		-0.47 @ 20 °C	

Dihydro-3-(tetrapropenyl)furan-2,5-dione (CAS: 26544-38-7)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Oncorhynchus mykiss</i>	100 mg/L, NOEC / 96 h > 100 mg/L, LC50 / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	mg/L, EC10 / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Pseudokirchneriella subcapitata</i>	110 mg/L, EC50 / 96 h 160 mg/L, EC50 / 96 h 33 mg/L, NOEC / 96 h	

12.2 Persistence and degradability

Easily biodegradable.

The biodegradability of the component is given in sec. 12.1

12.3 Bioaccumulative potential

Not given.

The value of the partition coefficient of the component is given in sec. 12.1

12.4 Mobility in soil

Soluble / miscible with water.

12.5 Results of PBT and vPvB assessment

This product does not contain any substances which are classified as PBT or vPvB in a concentration of 0.1% by weight or higher.

12.6 Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

12.7 Other adverse effects

In larger quantities, the mixture is hazardous to water. Under normal handling, the mixture shows no anomalies in biological treatment plants.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Catalogue No. of substance/mixture waste: 16 01 13 Brake fluids

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Waste codes / waste designations according to LoW:	15 01 02 Plastic packaging 15 01 10 Packaging containing residues of or contaminated by dangerous substances
Recommended procedure for substance/mixture waste disposal:	Collect the remnants of the mixture in marked containers and hand over for disposal to a person authorized to handle hazardous waste. Appropriate disposal: incineration in a hazardous waste incinerator. If possible, regenerate the product.
Recommended procedure for packaging disposal:	Empty packaging must be disposed of by the waste producer in accordance with the applicable waste legislation. After perfect cleaning, the packaging can be used as a secondary raw material for the same purpose. Recommended method of disposal of recycling, incineration in a hazardous waste incinerator or landfilling of hazardous waste
Physical / chemical properties that may affect waste treatment method:	Handle empty containers with care, as any residual fumes are flammable.
Sewage disposal-relevant information:	Protect against weathering. Prevent waste from entering water / soil / sewage system. Inform respective authorities in case of leakage.
Other disposal recommendations:	Dispose of in accordance with applicable legislation.

SECTION 14: Transport information

	Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
14.1	UN number or ID number	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.
14.2	UN proper shipping name			
14.3	Transport hazard class(es)			
	Classification code	-	-	-
	Labels			
14.4	Packing group			

14.5 Environmental hazards

No data available.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Transport is carried out in approved and suitable packaging.

Other information

Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
Limited quantities:			
Excepted quantities:			

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Transport category:		-	-
Tunnel restriction code:		-	-
Segregation group:	-		-

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) on classification, labelling and packaging of substances and mixtures,...
Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),...
Applicable national regulations.

The product contains substance 2-(2-methoxyethoxy)ethanol, that is included in Annex XVII. of REACH Regulation.

15.2 Chemical safety assessment

A chemical safety assessment has not been performed.

SECTION 16: Other information**Complete text of all classifications and hazard classes referred to in SECTION 3**

Hazard class:

Acute Tox. 4 - Acute Toxicity, category 4
Aquatic Chronic 4 - Chronic (long term) aquatic hazard, category 4
Eye Dam. 1 - Serious eye damage, category 1
Eye Irrit. 2 - Eye irritation, category 2
Repr. 2 - Reproductive toxicity, category 2
STOT RE 2 - Specific target organ toxicity (repeated exposure), category 2
Skin Sens. 1A - Skin sensitisation, category 1A

H-statements:

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H413 May cause long lasting harmful effects to aquatic life.

Abbreviations:

ADN	Inland waterways
ADR	Accord Dangereuses Route
CAS	Chemical Abstracts Service
DNEL	Derived no-effect level
EC50	Effect concentration for 50%
EINECS	European Inventory of Existing Commercial Chemical Substances
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50%
LD50	Lethal dose for 50%
LOAEL	Lowest observable adverse effect level
NOAEC	No observable adverse effect concentration
NOAEL	No observable adverse effect level

NOEC	No observable effect concentration
NPK-P	Maximum permissible concentration
OEL	Occupational Exposure Limit (workplace exposure limit - 8 hours / shift)
PBT	Persistent, bioaccumulative and toxic
PEL	Permissible exposure limits
PNEC	Predicted no-effect concentration
RID	Regulations for the International Carriage of Dangerous Goods by Rail
SCL	Specific concentration limits
STEL	Short Term Exposure Limit (short exposure - corresponds to approx. 15 min.)
VOC	Volatile organic substances
vPvB	Very persistent and very bioaccumulative
WGK	Hazard classes for water (Wassergefährdungsklassen)

Changes from the previous version of the MSDS: formal redrafting of the BL without change in composition and classification

This revision follows the release 4.0 of 17. 2. 2020 and is in compliance with Regulation (EC) no. 1907/2006 (REACH) and no. 1272/2008 (CLP).

Classification was performed by calculation method.

Instructions for training

Workers who come into contact with dangerous substances must be acquainted, to the extent necessary, with the effects of these substances, with the ways of handling them, with protective measures.

They must also be acquainted with the principles of first aid, with the necessary remediation procedures and with the procedures for the liquidation of failures and accidents.

The person handling this chemical product must be familiar with the safety rules and data given in the safety data sheet.

Persons transporting dangerous substances must be familiar with the instructions in the event of an accident in accordance with ADR / RID regulations.

Other information

The above information describes the conditions for safe handling of the product and corresponds to the current knowledge of the manufacturer, serves as guidelines for the training of persons handling the product.

The manufacturer bears the warranty for the above-described product properties in the recommended way of use.

The user is responsible for determining the suitability of the product for specific purposes and adapting the safety precautions if this use is contrary to the manufacturer's recommendations.