

Trade name: Felgenblitz alkalisch**Product no.:** 274999**Current version :** 1.0.0, issued: 02.11.2020**Replaced version: -**, issued: -**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Felgenblitz alkalisch****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Cleaner

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Koch-Chemie GmbH

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D-59423 Unna

Telephone no. +49-2303-9 86 70-0

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Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

+353 1 809 2166 (National Poisons Information Centre)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Corr. 1A; H314

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05

Signal word

Danger

Hazardous component(s) to be indicated on label:

sodium hydroxide

C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide

Trade name: Felgenblitz alkalisch**Product no.:** 274999**Current version :** 1.0.0, issued: 02.11.2020**Replaced version:** -, issued: -**Region:** IE

dimethyl(tetradecyl)amine oxide

Hazard statement(s)

H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P260 Do not breathe vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P390 Absorb spillage to prevent material damage.

2.3 Other hazards

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	propan-2-ol		
	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 5,00 - < 10,00 wt%
2	sodium hydroxide		
	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318	>= 5,00 - < 10,00 wt%
3	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide		
	2097729-23-0 825-356-1 - 01-2120770736-44	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 5,00 wt%
4	dimethyl(tetradecyl)amine oxide		
	3332-27-2 222-059-3	Acute Tox. 4; H302 Aquatic Acute 1; H400	< 5,00 wt%

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

	- 01-2119949262-37	Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315		
5	diethylene glycol		pls. refer to footnote (2)	
	111-46-6 203-872-2 603-140-00-6 01-2119457857-21	Acute Tox. 4; H302 STOT RE 2; H373	< 2,50	wt%
6	[[2-hydroxyethyl]imino]dimethylene]bisphosphonic acid, sodium salt			
	22036-78-8 244-743-0 -	Aquatic Chronic 3; H412 Eye Irrit. 2; H319 Met. Corr. 1; H290	< 2,50	wt%
7	2,2',2"-nitrilotriethanol			
	102-71-6 203-049-8 - -	-	>= 5,00 - < 10,00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Skin Irrit. 2; H315: C >= 0,5% Eye Irrit. 2; H319: C >= 0,5% Skin Corr. 1B; H314: C >= 2% Skin Corr. 1A; H314: C >= 5%	-	-

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

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation. Irregular breathing/no breathing: artificial respiration.

After skin contact

Wash immediately with plenty of water for several minutes. Seek medical attention.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Phosphorus oxides; Nitrogen oxides (NO_x); Corrosive gases/vapours

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing. Do not inhale vapours.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	2,2',2"-nitrilotriethanol	102-71-6	203-049-8
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
Triethanolamine			
	WEL long-term (8-hr TWA reference period)	5	mg/m ³
2	propan-2-ol	67-63-0	200-661-7
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
Isopropyl alcohol			
	WEL short-term (15 min reference period)		400 ppm
	WEL long-term (8-hr TWA reference period)		200 ppm
	Comments	Sk	
3	sodium hydroxide	1310-73-2	215-185-5
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
Sodium hydroxide			
	WEL short-term (15 min reference period)	2	mg/m ³
4	diethylene glycol	111-46-6	203-872-2
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
Diethylene glycol			
	WEL long-term (8-hr TWA reference period)	100	mg/m ³ 23 ppm

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	propan-2-ol			67-63-0 200-661-7	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m ³
2	sodium hydroxide			1310-73-2 215-185-5	
	inhalative	Long term (chronic)	local	1	mg/m ³
3	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide			2097729-23-0 825-356-1	
	dermal	Long term (chronic)	systemic	0,3	mg/kg/day
	inhalative	Long term (chronic)	systemic	1,48	mg/m ³
4	dimethyl(tetradecyl)amine oxide			3332-27-2 222-059-3	
	dermal	Long term (chronic)	systemic	11	mg/kg/day
	inhalative	Long term (chronic)	systemic	6,2	mg/m ³
5	diethylene glycol			111-46-6 203-872-2	
	dermal	Long term (chronic)	systemic	43	mg/kg/day
	inhalative	Long term (chronic)	local	60	mg/m ³
	inhalative	Long term (chronic)	systemic	44	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	propan-2-ol			67-63-0 200-661-7	
	oral	Long term (chronic)	systemic	26	mg/kg/day

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m ³
2	sodium hydroxide			1310-73-2 215-185-5	
	inhalative	Long term (chronic)	local	1	mg/m ³
3	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide			2097729-23-0 825-356-1	
	oral	Long term (chronic)	systemic	0,15	mg/kg/day
	dermal	Long term (chronic)	systemic	0,15	mg/kg/day
	inhalative	Long term (chronic)	systemic	0,22	mg/m ³
4	dimethyl(tetradecyl)amine oxide			3332-27-2 222-059-3	
	oral	Long term (chronic)	systemic	0,44	mg/kg/day
	dermal	Long term (chronic)	systemic	5,5	mg/kg/day
	inhalative	Long term (chronic)	systemic	1,53	mg/m ³
5	diethylene glycol			111-46-6 203-872-2	
	dermal	Long term (chronic)	systemic	21	mg/kg/day
	inhalative	Long term (chronic)	local	12	mg/m ³
	inhalative	Long term (chronic)	systemic	12	mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	propan-2-ol		67-63-0 200-661-7
	water	fresh water	140,9 mg/L
	water	Aqua intermittent	140,9 mg/L
	water	marine water	140,9 mg/L
	water	fresh water sediment	552 mg/L
	water	marine water sediment	552 mg/L
	soil	-	28 mg/kg
	sewage treatment plant	-	2251 mg/L
	secondary poisoning	-	160 mg/kg
	with reference to: food		
2	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide		2097729-23-0 825-356-1
	water	fresh water	0,356 µg/L
	water	marine water	0,036 µg/L
	water	fresh water sediment	1,7 mg/kg dry weight
	water	marine water sediment	0,17 mg/kg dry weight
	soil	-	0,81 mg/kg dry weight
	sewage treatment plant	-	3,43 mg/L
	secondary poisoning	-	13,3 mg/kg food
3	dimethyl(tetradecyl)amine oxide		3332-27-2 222-059-3
	water	fresh water	0,034 mg/L
	water	marine water	0,003 mg/L
	water	Aqua intermittent	0,034 mg/L
	water	fresh water sediment	5,24 mg/kg dry weight
	water	marine water sediment	0,524 mg/kg dry weight
	soil	-	1,02 mg/kg dry weight

Trade name: Felgenblitz alkalisch**Product no.:** 274999**Current version :** 1.0.0, issued: 02.11.2020**Replaced version:** -, issued: -**Region:** IE

	sewage treatment plant	-	24	mg/L
	secondary poisoning	-	11,1	mg/kg
	with reference to: food			
4	diethylene glycol		111-46-6 203-872-2	
	water	fresh water	10	mg/L
	water	marine water	1	mg/L
	water	fresh water sediment	20,9	mg/kg dry weight
	water	marine water sediment	2,09	mg/kg dry weight
	water	Aqua intermittent	10	mg/L
	soil	-	1,53	mg/kg dry weight
	sewage treatment plant	-	199,5	mg/L

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Filter A or environment-independent breathing apparatus.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	rubber		
Appropriate Material	butyl		
Appropriate Material	neoprene		
Appropriate Material	nitrile		
Material thickness	>	0,4	mm
Breakthrough time	>	480	min

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour
liquid
violet
Odour
characteristic

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

Odour threshold			
No data available			
pH value			
Value	13		
Boiling point / boiling range			
No data available			
Melting point / melting range			
No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
Value	>	60	°C
Method	ASTM D 92		
Auto-ignition temperature			
No data available			
Oxidising properties			
not oxidizing			
Explosive properties			
This product is not explosive. In and after use danger of production of inflammable compounds.			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			
No data available			
Vapour pressure			
No data available			
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value	1,05	g/cm ³	
Reference temperature	20	°C	
Solubility in water			
Comments	miscible		
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
log Pow		0,05	
Reference temperature		25	°C
Source	ECHA		
2	C16-18 (evennumbered, C18 unsaturated) alkyl	2097729-23-0	825-356-1

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

bis(2-hydroxyethyl) amine oxide		
log Pow		2,95
Reference temperature		23 °C
Source	ECHA	

Viscosity
No data available

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Formation of hydrogen gas possible on contact with certain metals (f.e. aluminium)

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

strong oxidizing agents; strong acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Felgenblitz alkalisch
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LD50		5840	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
LD50		2932	mg/kg bodyweight
Species	rat (female)		
Method	OECD 401		
Source	ECHA		
3	dimethyl(tetradecyl)amine oxide	3332-27-2	222-059-3
LD50		1495	mg/kg bodyweight

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

Species	rat
Method	OECD 401
Source	ECHA

Acute dermal toxicity

No	Substance name	CAS no.	EC no.
1	diethylene glycol	111-46-6	203-872-2
LD50		13300	mg/kg bodyweight
Species	rabbit		
Source	ECHA		

Acute inhalational toxicity

No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LC50	>	10000	ppmV
Duration of exposure		6	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	diethylene glycol	111-46-6	203-872-2
LC50	>	4,6	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation

No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
Species	Human		
Method	OECD 431		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	diethylene glycol	111-46-6	203-872-2
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
Species	rabbit		
Method	OECD 405		
Source	ECHA		

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

Evaluation	Irritating to eyes
3	diethylene glycol 111-46-6 203-872-2
Species	rabbit
Source	ECHA
Evaluation	non-irritant

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	sodium hydroxide	1310-73-2	215-185-5
Route of exposure		Skin	
Species	Human		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
4	diethylene glycol	111-46-6	203-872-2
Route of exposure		Skin	
Species	guinea pig		
Method	67/548/EEC, B.6		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
Type of examination		Bacterial Reverse Mutation Test	
Species	S. typhimurium TA 1535, TA 1537, TA 98 and TA 100		
Method	OECD 471		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	diethylene glycol	111-46-6	203-872-2
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	diethylene glycol	111-46-6	203-872-2
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	diethylene glycol	111-46-6	203-872-2

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
STOT - single exposure			
No data available			
STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Route of exposure		inhalational	
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Aspiration hazard			
No data available			

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
LC50		9640	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
2	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
LC50		0,95	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
3	diethylene glycol	111-46-6	203-872-2
LC50		75200	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
EC50		>	10000
Duration of exposure		24	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	sodium hydroxide	1310-73-2	215-185-5
EC50		40,4	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia spec		
Source	ECHA		
3	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
EC50		0,47	mg/l

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
NOEC	0,018	-	0,034
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
EC50	0,11		mg/l
Duration of exposure	72		h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	diethylene glycol	111-46-6	203-872-2
NOEC	2700		mg/l
Duration of exposure	8		day(s)
Species	Scenedesmus quadricauda		
Source	ECHA		

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	diethylene glycol	111-46-6	203-872-2
EC20	>	1,995	mg/l
Duration of exposure		0,5	h
Species	activated sludge		
Method	ISO 8192		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
Type	BOD/COD		
Value	53		%
Duration	5		day(s)
Source	ECHA		
Evaluation	readily biodegradable		
2	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	2097729-23-0	825-356-1
Value	79		%
Duration	28		day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
3	diethylene glycol	111-46-6	203-872-2
Type	DOC decrease		
Value	90	-	100
			%

Trade name: Felgenblitz alkalisch

Product no.: 274999

Current version : 1.0.0, issued: 02.11.2020

Replaced version: -, issued: -

Region: IE

Duration	28	day(s)
Method	OECD 301 B	
Source	ECHA	
Evaluation	readily biodegradable	

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)		
No	Substance name	EC no.
1	diethylene glycol	203-872-2
BCF		100
Species	Leuciscus idus	
Source	ECHA	

Partition coefficient: n-octanol/water		
No	Substance name	EC no.
1	propan-2-ol	200-661-7
log Pow	0,05	
Reference temperature	25	°C
Source	ECHA	
2	C16-18 (evennumbered, C18 unsaturated) alkyl bis(2-hydroxyethyl) amine oxide	825-356-1
log Pow	2,95	
Reference temperature	23	°C
Source	ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified

Trade name: Felgenblitz alkalisch**Product no.:** 274999**Current version :** 1.0.0, issued: 02.11.2020**Replaced version:** -, issued: -**Region:** IE

by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	8
Classification code	C9
Packing group	II
Hazard identification no.	80
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	sodium hydroxide [[[(2-hydroxyethyl)imino]dimethylene]bisphosphonic acid, sodium salt
Tunnel restriction code	E
Label	8

14.2 Transport IMDG

Class	8
Packing group	II
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	sodium hydroxide [[[(2-hydroxyethyl)imino]dimethylene]bisphosphonic acid, sodium salt
EmS	F-A, S-B
Label	8

14.3 Transport ICAO-TI / IATA

Class	8
Packing group	II
UN number	UN1760
Proper shipping name	Corrosive liquid, n.o.s.
Technical name	sodium hydroxide [[[(2-hydroxyethyl)imino]dimethylene]bisphosphonic acid, sodium salt
Label	8

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject

Trade name: Felgenblitz alkalisch**Product no.:** 274999**Current version :** 1.0.0, issued: 02.11.2020**Replaced version:** -, issued: -**Region:** IE

to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.
 Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.
 The surfactants contained in this product comply with the DetVO 648/2004/EC.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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