

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

1.1. Product identifier

Product form : Mixture
Trade name : Silicon remover 5L – 25L
Product code : DGR 05 – DGR 25

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Chemical Europe NV
Baarbeek, 2
2070 Zwijndrecht
T +32 (0) 3 234 87 80 - F +32 (0) 3 234 87 89
info@chemical.eu

1.4. Emergency telephone number

Emergency number : +32 (0) 3 760 08 09

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
2-butoxyethanol; ethylene glycol monobutyl ether	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0	0 – 1	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	
propan-2-ol; isopropyl alcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0	1-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	ATE inhalation (vapour) :3 mg/l ATE oral : 1200 mg/kg

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Sweep up dry powder and dispose properly. Rinse skin with water/shower.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Get medical advice/attention if you feel unwell. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after inhalation	: No known effects from this product.
Symptoms/effects after skin contact	: No known effects from this product.
Symptoms/effects after eye contact	: Causes serious eye damage. Corrosive to eyes.
Symptoms/effects after ingestion	: No known effects from this product.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: For a minor fire : ABC-powder. BC-powder. For large fire: Alcohol resistant foam.
Unsuitable extinguishing media	: For a minor fire : Do not use a water jet since it may cause the fire to spread. For a significant fire :

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Carbon oxides (CO, CO ₂).
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. fume.

5.3. Advice for firefighters

Precautionary measures fire	: No particular/specific measures required.
Protection during firefighting	: Wear gloves according to EN374 resistant to the solvent(s) in use. Use eye protection according to EN 166. protective clothing. EN 14605. EN 13034. Full face piece respirator. EN 136. EN 137.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : 8.2.

6.1.2. For emergency responders

Protective equipment : ISO 374-1. Gloves. Safety glasses. protective clothing. EN 14605. EN 13034.

6.2. Environmental precautions

Dam up the solid spill. Collect leaking liquid in covered containers.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean contaminated surfaces with an excess of water. Take up liquid spill into inert absorbent material. Wash clothing and equipment after handling.

6.4. Reference to other sections

SECTION 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Keep away from heat and direct sunlight. Use only non-sparking tools. Keep away from any flames or sparking source. Keep good industrial hygiene. Keep containers closed.

Precautions for safe handling : No open flames. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in accordance with local, regional, national or international regulation. Protect against frost.

Incompatible products : Heat sources.

Incompatible materials : Metal.

Packaging materials : a polypropylene.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

EU

2-Butoxyethanol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	98 mg/m ³
	Short time value (Indicative occupational exposure limit value)	50 ppm
	Short time value (Indicative occupational exposure limit value)	246 mg/m ³

Belgium

2-Butoxyethanol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	98 mg/m ³
	Short time value (Indicative occupational exposure limit value)	50 ppm

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	Short time value (Indicative occupational exposure limit value)	246 mg/m ³
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Alcool isopropylique	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	500 mg/m ³
	Short time value	400 ppm
	Short time value	1000 mg/m ³

The Netherlands

2-Butoxyethanol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	20.4 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	100 mg/m ³
	Short time value (Indicative occupational exposure limit value)	50 ppm
	Short time value (Indicative occupational exposure limit value)	246 mg/m ³

France

2-Butoxyethanol	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	10 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	49 mg/m ³
	Short time value (VRC: Valeur réglementaire contraignante)	50 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	246 mg/m ³

Alcool isopropylique	Short time value (VL: Valeur non réglementaire indicative)	400 ppm
	Short time value (VL: Valeur non réglementaire indicative)	980 mg/m ³

Germany

2-Butoxyethanol	Time-weighted average exposure limit 8 h (TRGS 900)	10 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	49 mg/m ³

Propan-2-ol	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	500 mg/m ³

Austria

2-Butoxyethanol	Tagesmittelwert (MAK)	20 ppm
	Tagesmittelwert (MAK)	98 mg/m ³
	Kurzzeitwert 30(Miw) 4x (MAK)	40 ppm
	Kurzzeitwert 30(Miw) 4x (MAK)	200 mg/m ³

2-Propanol Kurzzeitwert für Großguss	Tagesmittelwert (MAK)	200 ppm
	Tagesmittelwert (MAK)	500 mg/m ³
	Kurzzeitwert 30(Miw) 4x (MAK)	800 ppm
	Kurzzeitwert 30(Miw) 4x (MAK)	2000 mg/m ³

2-Propanol	Tagesmittelwert (MAK)	200 ppm
	Tagesmittelwert (MAK)	500 mg/m ³
	Kurzzeitwert 30(Miw) 4x (MAK)	800 ppm
	Kurzzeitwert 30(Miw) 4x (MAK)	2000 mg/m ³

UK

2-Butoxyethanol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	25 ppm
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	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	123 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	50 ppm
	Short time value (Workplace exposure limit (EH40/2005))	246 mg/m ³

Propan-2-ol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	999 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1250 mg/m ³

USA (TLV-ACGIH)

2-Butoxyethanol	Time-weighted average exposure limit 8 h (TLV – Adopted Value)	20 ppm
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2-propanol	Time-weighted average exposure limit 8 h (TLV – Adopted Value)	20 ppm
	Time-weighted average exposure limit 8 h (TLV – Adopted Value)	200 ppm
	Short time value (TLV – Adopted Value)	400 ppm

b) National biological limit values

If limit values are applicable and available these will be listed below.

Germany

2-Butoxyethanol (Butoxyessigsäure (nach Hydrolyse))	Urin: expositionsende, bzw. schichtende bei langzeitexposition: nach mehreren vorangegangenen schichten	150 mg/g Kreatinin
Propan-2-ol (Aceton)	Urin: expositionsende, bzw. schichtende	25 mg/l
Propan-2-ol (Aceton)	Vollblut: expositionsende, bzw. schichtende	25 mg/l

UK

2-Butoxyethanol (butoxyacetic acid)	Urine: post shift	240 mmol/mol creatinine
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USA (BEI-ACGIH)

2-butoxyethanol (Butoxyacetic acid (BAA))	urine: end of shift	200 mg/g creatinine	With hydrolysis
2-Propanol (Acetone)	Urine: end of shift at end of workweek	40 mg/L	Background, Nonspecific

8.1.2. Recommended monitoring procedures

Product name	Test	Number
2-Butoxyethanol (Alcohols IV)	NIOSH	1403
2-Butoxyethanol (Butyl Cellosolve solvent)	OSHA	83
2-Butoxyethanol	OSHA	5001
Butoxyacetic acid	NIOSH	8316
Butyl cellosolve (Volatile Organic compounds)	NIOSH	2549
Butyl Cellosolve	OSHA	83
Isopropanol (Volatile Organic compounds)	NIOSH	2549
Isopropyl Alcohol (Alcohols I)	NIOSH	1400
Isopropyl Alcohol	NIOSH	3900

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Isopropyl Alcohol	OSHA	5001
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8.1.3. Air contaminants formed

If limit values are applicable and available these will be listed below.

8.1.4. Threshold values

DNEL/DMEL-Workers

Propan-2-ol

Effect level (DNEL/DMEL)	Type	Value
DNEL	Long-term systemic effects inhalation	500 mg/m ³
	Long-term systemic effects dermal	888 mg/kg bw/day

2-butoxyethanol

Effect level (DNEL/DMEL)	Type	Value
DNEL	Long-term systemic effects inhalation	98 mg/m ³
	Acute systemic effect inhalation	1091 mg/m ³
	Acute local effects inhalation	246 mg/m ³

DNEL/DMEL-General population

Propan-2-ol

Effect level (DNEL/DMEL)	Type	Value
DNEL	Long-term systemic effects inhalation	89 mg/m ³
	Long-term systemic effects dermal	319 mg/kg bw/day
	Long-term systemic effects oral	26 mg/kg bw/day

2-butoxyethanol

Effect level (DNEL/DMEL)	Type	Value
DNEL	Long-term systemic effects inhalation	59 mg/m ³
	Acute systemic effects inhalation	426 mg/m ³
	Acute local effects inhalation	147 mg/m ³
	Long-term systemic effects oral	6.3 mg/kg bw/day
	Acute systemic effects oral	26.7 mg/kg bw/day

PNEC

2-butoxyethanol

Compartments	Value
Fresh water	8.8 mg/l
Marine water	0.88 mg/l
Fresh water (intermittent releases)	26.4 mg/l
STP	463 mg/l
Fresh water	34.6 mg/kg sediment dw
Marine water sediment	3.46 mg/kg sediment dw
Soil	2.33 mg/kg soil dw
Oral	0.02 g/kg food

8.1.5. Control banding

If applicable and available it will be listed below.

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Keep away from naked flames/heat. Use spark-/explosionproof appliances and lighting system. No flames, no sparks. Eliminate all sources of ignition. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

No additional information available

8.2.2.2. Skin protection

No additional information available

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: alcohol odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 1
Density	: 1000 kg/m ³
Solubility	: Soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : <3 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard

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10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Keep away from ignition sources/sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Upon combustion : CO and CO₂ are formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No (test) data on the mixture available

Judgement is based on the relevant ingredients

propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination
Oral	LD50	Equivalent to OECD 401	5840 mg/kg bw		Rat	Experimental value
Dermal	LC50	Equivalent to OECD 402	16400 ml/kg bw	24h	Rabbit	Experimental value
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 10000 ppm	6h	Rat (male/female)	Experimental value

2-butoxyethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination
Oral	LD50	Equivalent to OECD 401	1746 mg/kg bw		Rat (male)	Experimental value
Oral	LD50	OECD 401	1414 mg/kg bw		Guinea pig (male / female)	Experimental value
Dermal	LC0	OECD 402	> 2000 mg/kg bw	24h	Guinea pig (male / female)	Experimental value
Inhalation (vapours)	ATE		3 mg/l			Annex VI
Inhalation (saturated vapour)	Dose level	Equivalent to OECD 433	2.25 mg/l	4h	Guinea pig (male/female)	Experimental value

Conclusion

Not classified for acute toxicity

Corrosion/irritation

DGR WATER BASED DEGREASER

No (test) data on the mixture available

Judgement is based on the relevant ingredients

Silicon remover 5L – 25L

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

2-butoxyethanol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405	24 h	24; 48; 72 hours	Rabbit	Experimental value	Single treatment with rinsing
Skin	Irritating	EU Method B.4	4 h	24; 48; 72 hours	Rabbit	Experimental value	

propan-2-ol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not Irritating		4 h	4; 24; 48; 72 hours	Rabbit	Experimental value	

Conclusion

Not classified as irritating to the respiratory system

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

DGR WATER BASED DEGREASER

No (test) data on the mixture available

Judgement is based on the relevant ingredients

propan-2-ol

Route of exposure	Result	Method	Exposure time	Observation Time point	Species	Value determination	Remark
Dermal	Not sensitizing	OECD 406			Guinea pig (male / female)	Experimental value	

2-butoxyethanol

Route of exposure	Result	Method	Exposure time	Observation Time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406			Guinea pig (male / female)	Experimental value	

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

DGR WATER BASED DEGREASER

No (test) data on the mixture available

Judgement is based on the relevant ingredients

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propan-2-ol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (vapours)	NOAEC	OECD 451	5000 ppm		No adverse systemic effects	104 weeks (6h / day, 5 days / week)	Rat (male/female)	Experimental value
Inhalation (vapours)	Dose level	Equivalent to OECD 403	500 ppm	Central nervous system	Drowsiness, dizziness	6h	Rat (male/female)	Experimental value

2-butoxyethanol

Route of exposure	Parameter	Method	Value	Effect	Exposure time	Species	Value determination
Oral (drinking water)	NOAEL	Equivalent to OECD 408	< 69 mg/kg bw/day	No effect	90 days (continuous)	Rat (male)	Experimental value
Oral (drinking water)	NOAEL	Equivalent to OECD 408	< 82 mg/kg bw/day	No effect	90 day(s)	Rat (female)	Experimental value
Dermal	NOAEL	Equivalent to OECD 411	< 150 mg/kg bw/day	No effect	13 weeks (5 days / week)	Rabbit (male / female)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	< 31 ppm	No effect	14 weeks (6h / day, 5 days / week)	Rat (female)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	62.5 ppm	No effect	14 weeks (6h / day, 5 days / week)	Rat (male)	Experimental value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

DGR WATER BASED DEGREASER

No (test) data on the mixture available

Judgement is based on the relevant ingredients

2-butoxyethanol

Result	Method	Test substrate	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (<i>S. typhimurium</i>)	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Chinese hamster ovary (CHO)	Experimental value

Propan-2-ol

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (<i>S. typhimurium</i>)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value

Mutagenicity (in vivo)

DGR WATER BASED DEGREASER

No (test) data on the mixture available

Judgement is based on the relevant ingredients

Propan-2-ol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Intraperitoneal)	Equivalent to OECD 474		Mouse (male/female)		Experimental value

2-butoxyethanol

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Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Intraperitoneal)	Equivalent to OECD 474	3 dose(s)/24-hour interval	Mouse (male)		Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

DGR WATER BASED DEGREASER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Value determination
Inhalation (vapours)	NOEL	OECD 451	5000 ppm	104 weeks (6h / day, 5 days / week)	Rat (male / female)	No carcinogenic effect	Experimental value

2-butoxyethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Value determination
Inhalation (vapours)	NOAEC	Equivalent to OECD 451	> 125 ppm	104 weeks (6h / day, 5 days / week)	Rat (male / female)	No carcinogenic effect	Experimental value

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

DGR WATER BASED DEGREASER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Propan-2-ol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	400 mg/kg bw/day	10 day(s)	Rat	No effect	foetus	Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	400 mg/kg bw/day	10 day(s)	Rat	No effect		Experimental value
Effects on fertility (Oral (drinking water))	NOAEL	Equivalent to OECD 415	853 mg/kg bw/day		Rat (male/female)	No effect		Experimental value

2-butoxyethanol

	Parameter	Method	Value	Exposure time	Species	Effect	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEC	Equivalent to OECD 414	200 mg/kg bw/day	3 days (gestation, daily)	Rat	No effect	Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	30 mg/kg bw/day	3 days (gestation, daily)	Rat	No effect	Experimental value
Effects on fertility (Oral (drinking water))	NOAEL	Fertility assesment	720 mg/kg bw/day		Mouse (male/female)	No effect	Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

Judgement is based on the relevant ingredients

Not classified for aspiration toxicity

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Toxicity other effects

DGR WATER BASED DEGREASER

No (test) data on the mixture available

Chronic effects from short and long-term exposure

DGR WATER BASED DEGREASER

No effects known.

11.2 Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

DGR WATER BASED DEGREASER

No (test) data on the mixture available

Judgement of the mixture is based on the relevant ingredients

Propan-2-ol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	9640 mg/l - 10000 mg/l	96 h	Pimephales promelas	Flowthrough system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	LC50	Equivalent to OECD 202	> 10000 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	Toxicity threshold		1800 mg/l	7 day(s)	Scenedesmus Quadricauda	Static system	Fresh water	Experimental value; Toxicity test
Long-term toxicity fish	NOELR	Petrotox computer model	> 1000 mg/l	28 day(s)	Scenedesmus Quadricauda			Estimated value
Long-term toxicity aquatic Crustacea	NOEC		141 mg/l	16 day(s)	Daphnia magna		Fresh water	Experimental value; Growth
Toxicity aquatic microorganisms	Toxicity threshold	Equivalent to DIN 38412/8	1050mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Toxicity test
	EC 50	ISO 8192	41676 mg/l	30 minutes	Activated sludge			Experimental value

2-butoxyethanol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	1474 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	1550 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	1840 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	286 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate

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Long-term toxicity fish	NOEC	Equivalent to OECD 204	> 100 mg/l	21 day(s)	Danio rerio	Semi-static system	Fresh water	Experimental value; Nominal concentration
Long-term toxicity aquatic Crustacea	NOEC	OECD 211	100 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic microorganisms	Toxicity threshold	Equivalent to DIN 38412/8	700 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Nominal concentration

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

Propan-2-ol

Biodegradation water

Method	Value	Duration	Value determination
EU method C.5	53%; Oxygen consumption	5 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	17.668 h	1.5E6 /cm ³	QSAR

2-butoxyethanol

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B	90%; Carbon oxide	28 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.90	5.5 h	1.5E6 /cm ³	QSAR

Conclusion

Water

The surfactant(s) is/are biodegradable according to Regulation (EC) No 648/2004

12.3. Bioaccumulative potential

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

Propan-2-ol

BCF fishes

Parameter	Method	Value	Temperature	Value determination
BCF	BCFBFAF v3.01	1015		Estimated value

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.05	25°C	Weight of evidence approach

2-butoxyethanol

Log kow

Method	Remark	Value	Temperature	Value determination
BASF test		0.81	25°C	Experimental value

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Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

-propan-2-ol

(log) K_{oc}

Parameter	Method	Value	Value determination
log K _{oc}	SRC PCKOCWIN v2.0	0.185 - 0.541	Calculated value

-butoxyethanol

(log) K_{oc}

Parameter	Method	Value	Value determination
log K _{oc}	SRC PCKOCWIN v2.0	0.5 - 0.9	Calculated value

Conclusion

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.6. Other adverse effects

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

propan-2-ol

Groundwater

Groundwater pollutant

2-butoxyethanol

Groundwater

Groundwater pollutant

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Recycle or dispose of in compliance with current legislation.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Discharging into rivers and drains is forbidden.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: Waste material code packaging (Directive 2008/98/EC) 15 01 02* - plastic packaging

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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VOC Directive (2004/42)

VOC content : <3 %

2-butoxyethanol

Product name	Skin resorption
2-Butoxyethanol	Skin

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

European drinking water standards (98/83/EC and 2020/2184)

DGR WATER BASED DEGREASER

Parametr	Parametric value	Note	Reference
Sodium	200 mg/l		Listed in Annex I, Part C, of Directive (EU) 2020/2184 on the quality of water intended for human consumption.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

National legislation Belgium

No data available

Propan-2-ol

Agents cancérigènes, mutagènes et reprotoxiques (Code du bien-être au travail, Livre VI, titre 2)	alcool isopropylique; VI.2.2.; Liste des procédés au cours desquels une substance ou un mélange se dégage; Procédé à l'acide fort dans la fabrication d'alcool isopropylique.
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2-butoxyethanol

Résorption peau	2-Butoxyéthanol; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air.
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National legislation The Netherlands

Waterbezwaarlijkheid	B (5); Algemene Beoordelingsmethodiek (ABM)
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2-butoxyethanol

Huidopname (wettelijk)	2-Butoxyethanol; H
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National legislation France

No data available

2-butoxyethanol

Risque de pénétration percutanée	2-Butoxyéthanol; Risque de pénétration percutanée
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National legislation Germany

WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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Propan-2-ol

TA-Luft	5.2.5
TRGS900 - Risiko der Fruchtschädigung	Propan-2-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden

2-butoxyethanol

TA-Luft	5.2.5
TRGS900 - Risiko der Fruchtschädigung	2-Butoxyethanol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
Hautresorptive Stoffe	2-Butoxyethanol; H; Hautresorptiv

National legislation Austria

No data available

2-butoxyethanol

besondere Gefahr der Hautresorption	2-Butoxyethanol; H
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National legislation United Kingdom

No data available

2-butoxyethanol

Skin absorption	2-Butoxyethanol; Sk
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Other relevant data

No data available

Propan-2-ol

TLV – Carcinogen	2-propanol; A4
IARC - classification	3; Isopropanol

2-butoxyethanol

TLV – Carcinogen	2-propanol; A3
IARC - classification	3;2- butoxyethanol

15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

SECTION 16: Other information

Abbreviations and acronyms:

PBT	Persistent Bioaccumulative Toxic
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Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.