Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Rasant 010

Version number: 2.0
Replaces version of: 2019-08-15 (1)

Revision: 2020-10-07
First version: 2019-08-15

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

1.1 Product identifier

Trade name — **Rasant 010**

Registration number (REACH) — Not relevant (mixture).

CAS number — not relevant (mixture)

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

Relevant identified uses — Cleaning agent / Cleaner
Graffiti remover

1.3 Details of the supplier of the safety data sheet

Uniter Chemie GmbH
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1.4 Emergency telephone number

As above or nearest toxicological information centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Classification

Section	Hazard class	Category	Hazard class and category	Hazard state-ment
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16

2.2 Label elements

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

Signal word warning

Pictograms

GHS07

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
2-(2-butoxyethoxy)ethanol	CAS No 112-34-5 EC No 203-961-6 Index No 603-096-00-8	50 – < 75	Eye Irrit. 2 / H319		GHS-HC IOELV

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
2-butoxyethanol	CAS No 111-76-2 EC No 203-905-0 Index No 603-014-00-0 REACH Reg. No 01-2119475108-36-XXXX	10 – < 25	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		GHS-HC IOELV
sodium cumenes-ulphonate	CAS No 28348-53-0 EC No 248-983-7	5 – < 10	Eye Irrit. 2 / H319		

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off immediately all contaminated clothing.
In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air.
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.
If skin irritation occurs: Get medical advice/attention.

Following eye contact

Rinse cautiously with water for several minutes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth. Do not induce vomiting.
Get medical advice/attention if you feel unwell.

Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

These information are not available.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO2)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO2)

5.3 Advice for firefighters

Keep containers cool with water spray.
In case of fire and/or explosion do not breathe fumes.
Co-ordinate firefighting measures to the fire surroundings.
Do not allow firefighting water to enter drains or water courses.
Collect contaminated firefighting water separately.
Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.
Ventilate affected area.
Keep away from sources of ignition - No smoking.
Do not breathe vapour/spray.
Avoid contact with skin and eyes.
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

In case of formation of gases/vapours/mists suppress with water spray
Keep away from drains, surface and ground water.
Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to clean up a spill

Collect spillage.
Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal.
Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5.
Personal protective equipment: see section 8.
Incompatible materials: see section 10.
Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.
Avoid contact with skin and eyes.
Do not breathe vapour/spray.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.
Keep away from sources of ignition - No smoking.

Specific notes/details

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.
Wash hands after use.
Preventive skin protection (barrier creams/ointments) is recommended.
Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Protect against external exposure, such as

heat

Consideration of other advice

Keep away from food, drink and animal feeding stuffs.
Keep container tightly closed in a cool place.
Store in a dry place.

Ventilation requirements

Provision of sufficient ventilation.

Packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Notation	Source
EU	2-butoxyethanol	111-76-2	IOELV	20	98	50	246		2000/39/EC
EU	2-(2-butoxyethoxy)ethanol	112-34-5	IOELV	10	67.5	15	101.2		2006/15/EC
GB	2-butoxyethanol	111-76-2	WEL	25	123	50	246		EH40/2005
GB	2-(2-butoxyethoxy)ethanol	112-34-5	WEL	10	67.5	15	101.2		EH40/2005

Notation

STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
GB	2-butoxyethanol	2-butoxyacetic acid	crea	BMGV	240 mmol/mol	EH40/2005

Notation

crea creatinine

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	40.5 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	40.5 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	50 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	98 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	125 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	59 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	75 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-butoxyethanol	111-76-2	DNEL	6.3 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
sodium cumenesulphonate	28348-53-0	DNEL	4.02 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
sodium cumenesulphonate	28348-53-0	DNEL	4.02 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
sodium cumenesulphonate	28348-53-0	DNEL	32 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
sodium cumenesulphonate	28348-53-0	DNEL	1.98 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
sodium cumenesulphonate	28348-53-0	DNEL	1.98 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
sodium cumenesulphonate	28348-53-0	DNEL	16 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
sodium cumenesulphonate	28348-53-0	DNEL	1.14 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	1.1 mg/l	freshwater
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.11 mg/l	marine water
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	200 mg/l	sewage treatment plant (STP)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	4.4 mg/kg	freshwater sediment
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.44 mg/kg	marine sediment
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.32 mg/kg	soil
2-butoxyethanol	111-76-2	PNEC	8.8 mg/l	freshwater
2-butoxyethanol	111-76-2	PNEC	0.88 mg/l	marine water
2-butoxyethanol	111-76-2	PNEC	463 mg/l	sewage treatment plant (STP)

Relevant PNECs of components of the mixture				
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Environmental compartment**
2-butoxyethanol	111-76-2	PNEC	34.6 $^{mg}/_{kg}$	freshwater sediment
2-butoxyethanol	111-76-2	PNEC	2.33 $^{mg}/_{kg}$	soil
2-butoxyethanol	111-76-2	PNEC	3.46 $^{mg}/_{kg}$	marine sediment
sodium cumenesulphonate	28348-53-0	PNEC	0.23 $^{mg}/_{l}$	freshwater
sodium cumenesulphonate	28348-53-0	PNEC	0.023 $^{mg}/_{l}$	marine water
sodium cumenesulphonate	28348-53-0	PNEC	160 $^{mg}/_{l}$	sewage treatment plant (STP)
sodium cumenesulphonate	28348-53-0	PNEC	0.89 $^{mg}/_{kg}$	freshwater sediment
sodium cumenesulphonate	28348-53-0	PNEC	0.089 $^{mg}/_{kg}$	marine sediment
sodium cumenesulphonate	28348-53-0	PNEC	1.954 $^{mg}/_{kg}$	soil
2-(2-butoxyethoxy)ethanol: PNEC Oral - Predators - Secondary poisoning - 56 mg/kg				
2-butoxyethanol: PNEC Oral Secondary Poisoning 0,02 g/kg Food				

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves.
Chemical protection gloves are suitable, which are tested according to EN 374.
Check leak-tightness/impermeability prior to use.
In the case of wanting to use the gloves again, clean them before taking off and air them well.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Other protection measures

Protective clothing against liquid chemicals.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.
Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination.
Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Liquid
Form	Fluid
Colour	Colourless
Odour	Peculiar Mild
Odour threshold	These information are not available

Other safety parameters

pH (value)	Not determined
Melting point/freezing point	These information are not available
Initial boiling point and boiling range	These information are not available
Flash point	>65 °C
Evaporation rate	These information are not available
Flammability (solid, gas)	Not relevant (fluid)
Explosive limits	
Lower explosion limit (LEL)	0.77 vol% ($C_8H_{18}O_3$)
Upper explosion limit (UEL)	5.9 vol% ($C_8H_{18}O_3$)
Vapour pressure	These information are not available
Density	~0.96 $^{g}/_{cm^3}$ at 20 °C
Vapour density	These information are not available
Relative density	These information are not available
Solubility(ies)	
Water solubility	Miscible in any proportion
Partition coefficient	
n-octanol/water (log KOW)	These information are not available

Auto-ignition temperature	These information are not available
Relative self-ignition temperature for solids	Not relevant (Fluid)
Decomposition temperature	These information are not available
Viscosity	
Kinematic viscosity	0.625 $^{mm^2}/_{s}$ at 20 °C (calculated value)
Dynamic viscosity	~0.6 mPa s at 20 °C
Explosive properties	Not explosive
Oxidising properties	Shall not be classified as oxidising

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

May form explosive peroxides.
In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.
Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification procedure

If not otherwise specified the classification is based on:
Ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Test data are not available for the complete mixture.
Shall not be classified as acutely toxic (oral).
Dermal, Inhalation.
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
2-butoxyethanol	111-76-2	oral	1,414 $^{mg}/_{kg}$
2-butoxyethanol	111-76-2	dermal	1,100 $^{mg}/_{kg}$
2-butoxyethanol	111-76-2	inhalation: vapour	11 $^{mg}/_{l}$/4h

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
2-(2-butoxyethoxy)ethanol	112-34-5	oral	LD50	2,410 $^{mg}/_{kg}$	mouse, male	OECD Guideline 401	ECHA
2-(2-butoxyethoxy)ethanol	112-34-5	dermal	LD50	2,764 $^{mg}/_{kg}$	rabbit, male	OECD Guideline 402	ECHA
2-butoxyethanol	111-76-2	oral	LD50	1,414 $^{mg}/_{kg}$	guinea pig	OECD Guideline 401	ECHA
sodium cumenesulphonate	28348-53-0	oral	LD50	>7,000 $^{mg}/_{kg}$	rat	OECD Guideline 401	ECHA
sodium cumenesulphonate	28348-53-0	dermal	LD0	>2,000 $^{mg}/_{kg}$	rabbit	OECD Guideline 402	ECHA
sodium cumenesulphonate	28348-53-0	inhalation: dust/mist	LC50	>770 $^{mg}/_{l}$/4h	rat	16 CFR Part 1500.40	ECHA

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Respiratory sensitisation
Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.
Based on available data, the classification criteria are not met.

Aquatic toxicity (acute) of components of the mixture

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
2-(2-butoxyethoxy)ethanol	112-34-5	LC50	1,300 mg/l	bluegill (Lepomis macrochirus)	OECD Guideline 203	ECHA	96 h
2-(2-butoxyethoxy)ethanol	112-34-5	EC50	>100 mg/l	daphnia magna	EU method C.2	ECHA	48 h
2-(2-butoxyethoxy)ethanol	112-34-5	ErC50	1,101 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
2-(2-butoxyethoxy)ethanol	112-34-5	EbC50	>100 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	96 h
2-butoxyethanol	111-76-2	LC50	1,474 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA	96 h
2-butoxyethanol	111-76-2	ErC50	>1,000 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
2-butoxyethanol	111-76-2	EC50	1,550 mg/l	daphnia magna	OECD Guideline 202	ECHA	48 h
2-butoxyethanol	111-76-2	EbC50	623 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
sodium cumenesulphonate	28348-53-0	LC50	>450 mg/l	fathead minnow (Pimephales promelas)	EPA OTS 797.1400	ECHA	96 h
sodium cumenesulphonate	28348-53-0	EC50	>450 mg/l	water flea (Daphnia)	EPA OTS 797.1300	ECHA	48 h
sodium cumenesulphonate	28348-53-0	ErC50	230 mg/l	algae (pseudokirchneriella subcapitata)	EPA OTS 797.1050	ECHA	96 h

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.
Based on available data, the classification criteria are not met.

Aquatic toxicity (chronic) of components of the mixture

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
2-(2-butoxyethoxy)ethanol	112-34-5	NOEC	≥100 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	96 h
2-(2-butoxyethoxy)ethanol	112-34-5	growth (EbCx) 10%	>1,995 mg/l	Bacteria (activated sludge)	OECD Guideline 209	ECHA	30 min
2-butoxyethanol	111-76-2	EC50	297 mg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
2-butoxyethanol	111-76-2	NOEC	62.5 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
2-butoxyethanol	111-76-2	NOEC	100 mg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
2-butoxyethanol	111-76-2	growth (EbCx) 10%	134 mg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
2-butoxyethanol	111-76-2	growth (EbCx) 10%	308 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
2-butoxyethanol	111-76-2	growth rate (ErCx) 10%	679 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
sodium cumenesulphonate	28348-53-0	NOEC	31 mg/l	algae (pseudokirchneriella subcapitata)	EPA OTS 797.1050	ECHA	96 h

12.2 Persistence and degradability

Degradability of components of the mixture

Degradability of components of the mixture						
Name of substance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**	**Source**
2-(2-but-oxyethoxy)eth-anol	112-34-5	oxygen deple-tion	85 %	28 d	OECD Guideline 301 C	ECHA
2-butoxyeth-anol	111-76-2	carbon diox-ide generation	90.4 %	28 d	OECD Guideline 301 B	ECHA
sodium cume-nesulphonate	28348-53-0	carbon diox-ide generation	≥103 – ≤109 %	28 d	OECD Guideline 301 E	ECHA

Biodegradation

The relevant substances of the mixture are readily biodegradable.

Persistence

No data available.

12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

Bioaccumulative potential of components of the mixture

Bioaccumulative potential of components of the mixture			
Name of substance	**CAS No**	**BCF**	**Log KOW**
2-(2-butoxyethoxy)ethanol	112-34-5		1 (pH value: 7, 20 °C)
2-butoxyethanol	111-76-2		0.81 (pH value: 7, 25 °C)
sodium cumenesulphonate	28348-53-0		-1.5 (pH value: 7, 25 °C)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Completely emptied packages can be recycled.
Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1	**UN number**	not subject to transport regulations
14.2	**UN proper shipping name**	-
14.3	**Transport hazard class(es)**	-
14.4	**Packing group**	-
14.5	**Environmental hazards**	-
14.6	**Special precautions for user**	-
14.7	**Transport in bulk according to Annex II of MARPOL and the IBC Code**	-

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	CAS No	Restriction
Rasant 010	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3
2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	R55

Legend

R3 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

Legend

- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';

(b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';

(c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

R55 1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.

2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.

3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows: 'Do not use in paint spraying equipment'.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

Not assigned.

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Regulation 648/2004/EC on detergents

Labelling of contents	
Wt%	**Constituents**
≥5% - <15%	anionic surfactants

Water Framework Directive (WFD)

Not all ingredients are listed.

List of pollutants (WFD)				
Name of substance	**Name acc. to inventory**	**CAS No**	**Listed in**	**Remarks**
sodium cumenesulphonate	Metals and their compounds		A)	
2-butoxyethanol	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	

Legend

A) Indicative list of the main pollutants

Regulation 98/2013/EU on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Indication of changes (revised safety data sheet)		
Section	**Former entry (text/value)**	**Actual entry (text/value)**
1.3	Details of the supplier of the safety data sheet: Uniter Chemie GmbH Ostring 16 D-44787 Bochum Germany Telephone: ++49 (0) 234 - 18487 Telefax: ++49 (0) 234 - 67175 e-mail: info@uniter.com	Details of the supplier of the safety data sheet: Uniter Chemie GmbH Lötscher Weg 48 D-41334 Nettetal Germany Telephone: ++49 (0) 2153 - 9789-0 Telefax: ++49 (0) 2153 - 9789-29 e-mail: info@uniter.com
8.1		Relevant PNECs of components of the mixture: change in the listing (table)

Abbreviations and acronyms

Abbreviations and acronyms	
Abbr.	**Descriptions of used abbreviations**
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit

Abbreviations and acronyms	
Abbr.	**Descriptions of used abbreviations**
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties.
Health hazards.
Environmental hazards.
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

List of relevant phrases (code and full text as stated in chapter 2 and 3)	
Code	**Text**
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Responsible for the safety data sheet

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Disclaimer

This information is based upon the present state of our knowledge.
This SDS has been compiled and is solely intended for this product.