



Safety Data Sheet

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

Rasant 030

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

1.1 Product identifier

Trade name Rasant 030
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 Graffiti remover

1.3 Details of the supplier of the safety data sheet

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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 statement
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	skin sensitisation	1	Skin Sens. 1	H317
3.7	reproductive toxicity	1B	Repr. 1B	H360Df
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

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For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word danger

Pictograms

**GHS02, GHS05,
GHS07, GHS08,
GHS09**



Hazard statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H360Df May damage the unborn child. Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental hazard information

For professional users only.

Hazardous ingredients for labelling

N-ethyl-2-pyrrolidone
(R)-p-mentha-1,8-diene
γ-butyrolactone
isotridecanol, ethoxylated

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

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

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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-methoxymethyl-ethoxy)propanol	CAS No 34590-94-8 EC No 252-104-2	25 – < 50			IOELV
N-ethyl-2-pyrrolidone	CAS No 2687-91-4 EC No 220-250-6 Index No 616-208-00-5	12.5 – < 25	Eye Dam. 1 / H318 Repr. 1B / H360Df		
γ-butyrolactone	CAS No 96-48-0 EC No 202-509-5	7.5 – < 12.5	Acute Tox. 4 / H302 Eye Dam. 1 / H318 STOT SE 3 / H336		
1-methoxy-2-propanol	CAS No 107-98-2 EC No 203-539-1 Index No 603-064-00-3	5 – < 7.5	Flam. Liq. 3 / H226 STOT SE 3 / H336		GHS-HC IOELV
(R)-p-mentha-1,8-diene	CAS No 5989-27-5 EC No 227-813-5 Index No 601-029-00-7 REACH Reg. No 01-2119529223-47-XXXX	1 – < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		C(b) GHS-HC

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Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
isotridecanol, ethoxylated	CAS No 69011-36-5	1 - < 5	Acute Tox. 4 / H302 Eye Dam. 1 / H318	 	
alcohols, C12-14, ethoxylated	CAS No 68439-50-9	1 - < 5	Eye Irrit. 2 / H319 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	 	

Notes

C(b): The substance is a specific isomer. The mixture of isomers is mentioned in Part 3 of the Regulation (EC) No 1272/2008

GHS- Harmonised classification (the classification of the substance corresponds to the entry in the list according to HC: 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

Remove victim out of the danger area.

Take off immediately all contaminated clothing.

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

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

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 or rash occurs: Get medical advice/attention.

Following eye contact

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 immediately and drink plenty of water.

Do NOT induce vomiting.

Get medical advice/attention.

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.

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

Solvent vapours are heavier than air and may spread along floors.

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

nitrogen oxides (NO_x), 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 get in eyes, on skin, or on clothing.

Do not breathe mist/vapours/spray.

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.
If substance has entered a water course or sewer, inform the responsible authority.

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 mist/vapours/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.
Take precautionary measures against static discharge.
Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.

Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.
Vapours are heavier than air, spread along floors and form explosive mixtures with air.
Vapours may form explosive mixtures with air.

Measures to protect the environment

Avoid release to the environment.

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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

Explosive atmospheres

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

Use local and general ventilation.

Keep cool.

Protect from sunlight.

Flammability hazards

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

Take precautionary measures against static discharge.

Ground/bond container and receiving equipment.

Protect from sunlight.

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.

Keep in a cool, well-ventilated place.

Ventilation requirements

Provision of sufficient ventilation.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

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/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
EU	1-methoxy-2-propanol	107-98-2	IOELV	100	375	150	568		2000/39/EC

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Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
EU	(2-methoxy-methylethoxy)propanol	34590-94-8	IOELV	50	308				2000/39/EC
GB	1-methoxypropan-2-ol	107-98-2	WEL	100	375	150	560		EH40/2005
GB	(2-methoxy-methylethoxy)propanol	34590-94-8	WEL	50	308				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)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	283 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	308 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	36 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	121 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	37.2 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
N-ethyl-2-pyrrolidone	2687-91-4	DNEL	16.75 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
N-ethyl-2-pyrrolidone	2687-91-4	DNEL	10.05 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
N-ethyl-2-pyrrolidone	2687-91-4	DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
N-ethyl-2-pyrrolidone	2687-91-4	DNEL	1 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects

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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
N-ethyl-2-pyrrolidone	2687-91-4	DNEL	1.2 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
N-ethyl-2-pyrrolidone	2687-91-4	DNEL	0.5 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
N-ethyl-2-pyrrolidone	2687-91-4	DNEL	0.5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
γ-butyrolactone	96-48-0	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
γ-butyrolactone	96-48-0	DNEL	19 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1-methoxy-2-propanol	107-98-2	DNEL	369 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-methoxy-2-propanol	107-98-2	DNEL	183 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1-methoxy-2-propanol	107-98-2	DNEL	43.9 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
1-methoxy-2-propanol	107-98-2	DNEL	78 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
1-methoxy-2-propanol	107-98-2	DNEL	33 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	66.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	16.6 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	4.8 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	4.8 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

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Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	19 mg/l	freshwater
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	1.9 mg/l	marine water
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	4,168 mg/l	sewage treatment plant (STP)
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	70.2 mg/kg	freshwater sediment
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	7.02 mg/kg	marine sediment
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	2.74 mg/kg	soil
N-ethyl-2-pyrrolidone	2687-91-4	PNEC	0.25 mg/l	freshwater
N-ethyl-2-pyrrolidone	2687-91-4	PNEC	0.025 mg/l	marine water
N-ethyl-2-pyrrolidone	2687-91-4	PNEC	10 mg/l	sewage treatment plant (STP)
N-ethyl-2-pyrrolidone	2687-91-4	PNEC	1.25 mg/kg	freshwater sediment
N-ethyl-2-pyrrolidone	2687-91-4	PNEC	0.125 mg/kg	marine sediment
N-ethyl-2-pyrrolidone	2687-91-4	PNEC	0.104 mg/kg	soil
γ-butyrolactone	96-48-0	PNEC	0.056 mg/l	freshwater
γ-butyrolactone	96-48-0	PNEC	0.006 mg/l	marine water
γ-butyrolactone	96-48-0	PNEC	452 mg/l	sewage treatment plant (STP)
γ-butyrolactone	96-48-0	PNEC	0.24 mg/kg	freshwater sediment
γ-butyrolactone	96-48-0	PNEC	0.015 mg/kg	soil
γ-butyrolactone	96-48-0	PNEC	0.02 mg/kg	marine sediment
1-methoxy-2-propanol	107-98-2	PNEC	10 mg/l	freshwater
1-methoxy-2-propanol	107-98-2	PNEC	1 mg/l	marine water
1-methoxy-2-propanol	107-98-2	PNEC	100 mg/l	sewage treatment plant (STP)
1-methoxy-2-propanol	107-98-2	PNEC	52.3 mg/kg	freshwater sediment
1-methoxy-2-propanol	107-98-2	PNEC	5.2 mg/kg	marine sediment
1-methoxy-2-propanol	107-98-2	PNEC	4.59 mg/kg	soil

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Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	14 µg/l	freshwater
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.4 µg/l	marine water
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.8 mg/l	sewage treatment plant (STP)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	3.85 mg/kg	freshwater sediment
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.385 mg/kg	marine sediment
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.763 mg/kg	soil
(R)-p-mentha-1,8-diene: PNEC Oral Secondary poisoning 133 mg/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

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
no information available	no information available	no information available

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).

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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	Viscous
Colour	Colourless to yellowish
Odour	Weak/faint
Odour threshold	These information are not available

Other safety parameters

pH (value)	~8
Melting point/freezing point	These information are not available
Initial boiling point and boiling range	These information are not available
Flash point	≤60 °C
Evaporation rate	These information are not available
Flammability (solid, gas)	Not relevant (fluid)

Explosive limits

Lower explosion limit (LEL) These information are not available

Upper explosion limit (UEL) These information are not available

Vapour pressure These information are not available

Density 0.93 g/cm³ at 20 °C

Vapour density These information are not available

Relative density These information are not available

Solubility(ies)

Water solubility Not 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
(Fluid) Not relevant

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Decomposition temperature	These information are not available
Viscosity	
Kinematic viscosity	These information are not available
Dynamic viscosity	These information are not available
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

Risk of ignition.

If heated:

risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

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.
Take precautionary measures against static discharge.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

10.5 Incompatible materials

strong oxidiser

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).

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

Acute toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Test data are not available for the complete mixture.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
γ-butyrolactone	96-48-0	oral	1,582 mg/kg
isotridecanol, ethoxylated	69011-36-5	oral	500 mg/kg

Acute toxicity of components of the mixture							
Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
(2-methoxymethylethoxy)propanol	34590-94-8	oral	LD0	>5,000 mg/kg	rat	OECD Guideline 401	ECHA
(2-methoxymethylethoxy)propanol	34590-94-8	dermal	LD50	9,510 mg/kg	rabbit, male	OECD Guideline 402	ECHA
N-ethyl-2-pyrrolidone	2687-91-4	oral	LD50	3,200 mg/kg	rat	OECD Guideline 401	ECHA
N-ethyl-2-pyrrolidone	2687-91-4	dermal	LD50	>2,000 mg/kg	rat	OECD Guideline 402	ECHA
N-ethyl-2-pyrrolidone	2687-91-4	inhalation: dust/mist	LC50	>5.1 mg/l/4h	rat	OECD Guideline 403	ECHA
γ-butyrolactone	96-48-0	oral	LD50	1,582 mg/kg	rat	OECD Guideline 401	ECHA
γ-butyrolactone	96-48-0	inhalation: dust/mist	LC0	>5.1 mg/l/4h	rat	OECD Guideline 403	ECHA
1-methoxy-2-propanol	107-98-2	oral	LD50	4,016 mg/kg	rat	EU method B.1	ECHA
1-methoxy-2-propanol	107-98-2	dermal	LD0	>2,000 mg/kg	rat	EU method B.3	ECHA
(R)-p-mentha-1,8-diene	5989-27-5	oral	LD50	>2,000 mg/kg	rat	OECD Guideline 423	ECHA

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Acute toxicity of components of the mixture							
Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
(R)-p-mentha-1,8-diene	5989-27-5	dermal	LD50	>5,000 mg/kg	rabbit	OECD Guideline 402	ECHA
alcohols, C12-14, ethoxylated	68439-50-9	oral	LD50	>2,000 mg/kg	rat		manufacturer

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

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

May damage the unborn child.

Suspected of damaging fertility.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

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-methoxy-methylethoxy)propanol	34590-94-8	LC50	>1,000 mg/l	guppy (Poecilia reticulata)	OECD Guideline 203	ECHA	96 h
(2-methoxy-methylethoxy)propanol	34590-94-8	LC50	>1,000 mg/l	Crangon crangon	EPA OPP 72-3	ECHA	48 h
(2-methoxy-methylethoxy)propanol	34590-94-8	ErC50	>969 mg/l	algae (pseudokirchneriella subcapitata)	EU method C.3	ECHA	72 h
(2-methoxy-methylethoxy)propanol	34590-94-8	EbC50	>969 mg/l	algae (pseudokirchneriella subcapitata)	EU method C.3	ECHA	72 h
N-ethyl-2-pyrrolidone	2687-91-4	LC50	>464 – 999 mg/l	zebra fish (Danio rerio)	OECD Guideline 203	ECHA	96 h
N-ethyl-2-pyrrolidone	2687-91-4	EC50	>104 mg/l	daphnia magna	OECD Guideline 202	ECHA	48 h
N-ethyl-2-pyrrolidone	2687-91-4	ErC50	>101 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
γ-butyrolactone	96-48-0	LC50	56 mg/l	bluegill (Lepomis macrochirus)	OECD Guideline 203	ECHA	96 h
γ-butyrolactone	96-48-0	EC50	>500 mg/l	daphnia magna	EU method C.2	ECHA	48 h
γ-butyrolactone	96-48-0	ErC50	>1,000 mg/l	algae (Desmodesmus subspicatus)	DIN 38412	ECHA	72 h
1-methoxy-2-propanol	107-98-2	LC50	≥1,000 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA	96 h

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Aquatic toxicity (acute) of components of the mixture							
Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
1-methoxy-2-propanol	107-98-2	LC50	21,100 – 25,900 mg/l	daphnia magna	Environmental Sciences Research Test Method No. ESR-ES-15	ECHA	48 h
(R)-p-mentha-1,8-diene	5989-27-5	LC50	720 µg/l	fathead minnow (Pimephales promelas)	OECD Guideline 203	ECHA	96 h
(R)-p-mentha-1,8-diene	5989-27-5	ErC50	0.32 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	0.214 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	0.307 mg/l	daphnia magna	OECD Guideline 202	ECHA	48 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	688 µg/l	fathead minnow (Pimephales promelas)	OECD Guideline 203	ECHA	96 h

Aquatic toxicity (chronic)

Toxic to aquatic life with long lasting effects.

Test data are not available for the complete mixture.

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-methoxy-methylethoxy)propanol	34590-94-8	NOEC	969 mg/l	algae (pseudokirchneriella subcapitata)	EU method C.3	ECHA	72 h
(2-methoxy-methylethoxy)propanol	34590-94-8	LOEC	0.5 mg/l	daphnia magna	OECD Guideline 211	ECHA	22 d

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Aquatic toxicity (chronic) of components of the mixture							
Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
(2-methoxy-methylethoxy)propanol	34590-94-8	growth (Eb-Cx) 10%	4,168 mg/l	activated sludge (Pseudomonas putida)		ECHA	18 h
N-ethyl-2-pyrrolidone	2687-91-4	NOEC	≥101 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
N-ethyl-2-pyrrolidone	2687-91-4	NOEC	12.5 mg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
N-ethyl-2-pyrrolidone	2687-91-4	LOEC	>101 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
N-ethyl-2-pyrrolidone	2687-91-4	LOEC	25 mg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
N-ethyl-2-pyrrolidone	2687-91-4	growth (Eb-Cx) 10%	>101 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
N-ethyl-2-pyrrolidone	2687-91-4	growth (Eb-Cx) 90%	>101 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	ECHA	72 h
N-ethyl-2-pyrrolidone	2687-91-4	growth (Eb-Cx) 20%	>1,000 mg/l	microorganisms		ECHA	30 min
N-ethyl-2-pyrrolidone	2687-91-4	growth (Eb-Cx) 20%	>1,000 mg/l	microorganisms		ECHA	30 min
γ-butyrolactone	96-48-0	NOEC	<7.81 mg/l	algae (Desmodesmus subspicatus)	DIN 38412	ECHA	72 h
γ-butyrolactone	96-48-0	growth rate (ErCx) 10%	84.4 mg/l	algae (Desmodesmus subspicatus)	DIN 38412	ECHA	72 h
1-methoxy-2-propanol	107-98-2	ErC50	>1,000 mg/l	algae (pseudokirchneriella subcapitata)	Test method ET-11-1987-1. Algal toxicity test.	ECHA	7 d
(R)-p-mentha-1,8-diene	5989-27-5	EC50	188 µg/l	daphnia magna	OECD Guideline 211	ECHA	21 d

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Aquatic toxicity (chronic) of components of the mixture							
Name of sub-stance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	EC50	>0.37 - <0.67 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 212	ECHA	8 d
(R)-p-mentha-1,8-diene	5989-27-5	EC50	209 mg/l	activated sludge of a predominantly domestic sewage	OECD Guideline 209	ECHA	3 h
(R)-p-mentha-1,8-diene	5989-27-5	LC50	0.41 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 212	ECHA	8 d
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.059 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 212	ECHA	8 d
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	80 µg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.09 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	48 h
(R)-p-mentha-1,8-diene	5989-27-5	LOEC	0.19 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 212	ECHA	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LOEC	173 µg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
(R)-p-mentha-1,8-diene	5989-27-5	growth (Eb-Cx) 10%	>0.37 - <0.67 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 212	ECHA	8 d
(R)-p-mentha-1,8-diene	5989-27-5	growth (Eb-Cx) 10%	153 µg/l	daphnia magna	OECD Guideline 211	ECHA	21 d
(R)-p-mentha-1,8-diene	5989-27-5	growth (Eb-Cx) 10%	18 mg/l	activated sludge of a predominantly domestic sewage	OECD Guideline 209	ECHA	3 h

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Aquatic toxicity (chronic) of components of the mixture							
Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	growth (Eb-Cx) 10%	0.149 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
(R)-p-mentha-1,8-diene	5989-27-5	growth rate (ErCx) 10%	0.174 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h
(R)-p-mentha-1,8-diene	5989-27-5	growth rate (ErCx) 20%	0.17 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	48 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-methoxy-methylethoxy) propanol	34590-94-8	oxygen depletion	79 %	28 d	OECD Guideline 301 F	ECHA
(2-methoxy-methylethoxy) propanol	34590-94-8	carbon dioxide generation	76 %	28 d	OECD Guideline 301 F	ECHA
(2-methoxy-methylethoxy) propanol	34590-94-8	DOC removal	96 %	28 d	OECD Guideline 301 F	ECHA
N-ethyl-2-pyrrolidone	2687-91-4	DOC removal	90 - 100 %	28 d	OECD Guideline 301 A	ECHA
γ-butyrolactone	96-48-0	oxygen depletion	77 %	14 d	OECD Guideline 301 C	ECHA
1-methoxy-2-propanol	107-98-2	DOC removal	96 %	28 d	OECD Guideline 301 E	ECHA
(R)-p-mentha-1,8-diene	5989-27-5	carbon dioxide generation	71.4 %	28 d	OECD Guideline 301 B	ECHA

Biodegradation

Test data are not available for the complete mixture.

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-methoxymethylethoxy)propanol	34590-94-8		0.0043 (pH value: 7.5, 25 °C)
N-ethyl-2-pyrrolidone	2687-91-4		-0.2 (23 °C)
γ-butyrolactone	96-48-0		-0.566 (pH value: ~7, 25 °C)
1-methoxy-2-propanol	107-98-2	3.16	<1 (pH value: 6.8, 20 °C)
(R)-p-mentha-1,8-diene	5989-27-5		4.57

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): 3
Keep away from drains, surface and ground water.

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.

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Remarks



Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1	UN number	1993
14.2	UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
	Technical name (hazardous ingredients)	1-methoxy-2-propanol, dipentene
14.3	Transport hazard class(es)	
	Class	3
14.4	Packing group	III
14.5	Environmental hazards	hazardous to the aquatic environment
	Environmentally hazardous substance (aquatic environment)	dipentene
14.6	Special precautions for user	-
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	-

14.8 Information for each of the UN Model Regulations



Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

UN number	1993
Proper shipping name	UN1993, FLAMMABLE LIQUID, N.O.S., (1-methoxy-2-propanol, dipentene), 3, III, (D/E), environmentally hazardous
Class	3
Classification code	F1
Packing group	III
Danger label(s)	3, fish and tree
 	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3


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Tunnel restriction code (TRC)	D/E
Hazard identification No	30
Emergency Action Code	3Y

International Maritime Dangerous Goods Code (IMDG)

UN number	1993
Proper shipping name	UN1993, FLAMMABLE LIQUID, N.O.S., (1-methoxy-2-propanol, dipentene), 3, III, ≤60°C c.c., MARINE POLLUTANT
Class	3
Marine pollutant	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	3, fish and tree
 	
Special provisions (SP)	223, 274, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, <u>S-E</u>
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	1993
Proper shipping name	UN1993, Flammable liquid, n.o.s., (1-methoxy-2-propanol, dipentene), 3, III
Class	3
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	3
	
Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L

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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 030	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3
1-methoxy-2-propanol	flammable / pyrophoric		R40
N-ethyl-2-pyrrolidone	toxic for reproduction		R28-30
(R)-p-mentha-1,8-diene	flammable / pyrophoric		R40

Legend

- R28-30 1. Shall not be placed on the market, or used,
- as substances,
 - as constituents of other substances, or,
 - in mixtures,
- for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:
- either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,
 - the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
- Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'.
2. By way of derogation, paragraph 1 shall not apply to:
- (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;
 - (b) cosmetic products as defined by Directive 76/768/EEC;
 - (c) the following fuels and oil products:
 - motor fuels which are covered by Directive 98/70/EC,
 - mineral oil products intended for use as fuel in mobile or fixed combustion plants,
 - fuels sold in closed systems (e.g. liquid gas bottles);
 - (d) artists' paints covered by Directive 1999/45/EC;
 - (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.

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,
 - 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.
- R40
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopie' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'For professional users only'.
 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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

None of the ingredients are listed.

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Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200	500	57)
P5c	flammable liquids (cat. 2, 3)	5,000	50,000	51)

Notation

51) flammable liquids, categories 2 or 3 not covered by P5a and P5b

57) hazardous to the Aquatic Environment in category Chronic 2

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%	non-ionic surfactants
	perfumes (D-LIMONENE)

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
N-ethyl-2-pyrrolidone	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

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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	<p>Details of the supplier of the safety data sheet: Uniter Chemie GmbH Ostring 16 D-44787 Bochum Germany</p> <p>Telephone: ++49 (0) 234 - 18487 Telefax: ++49 (0) 234 - 67175 e-mail: info@uniter.com</p>	<p>Details of the supplier of the safety data sheet: Uniter Chemie GmbH Lötscher Weg 48 D-41334 Nettetal Germany</p> <p>Telephone: ++49 (0) 2153 - 9789-0 Telefax: ++49 (0) 2153 - 9789-29 e-mail: info@uniter.com</p>
2.2	<p>Hazardous ingredients for labelling: N-Ethyl-2-pyrrolidone D-limonene γ-Butyrolactone isotridecanol, ethoxylated (>=7-<=10EO)</p>	<p>Hazardous ingredients for labelling: N-ethyl-2-pyrrolidone (R)-p-mentha-1,8-diene γ-butyrolactone isotridecanol, ethoxylated</p>
3.2		<p>Hazardous ingredients: change in the listing (table)</p>
8.1		<p>Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)</p>
8.1		<p>Relevant DNELs of components of the mixture: change in the listing (table)</p>
8.1		<p>Relevant PNECs of components of the mixture: change in the listing (table)</p>
14.2	<p>Technical name (hazardous ingredients): 1-METHOXY-2-PROPANOL, D-limonene</p>	<p>Technical name (hazardous ingredients): 1-methoxy-2-propanol, dipentene</p>
14.5	<p>Environmentally hazardous substance (aquatic environment): D-limonene</p>	<p>Environmentally hazardous substance (aquatic environment): dipentene</p>

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Indication of changes (revised safety data sheet)		
Section	Former entry (text/value)	Actual entry (text/value)
14.8	Proper shipping name: UN1993, FLAMMABLE LIQUID, N.O.S., (1-METHOXY-2-PROPANOL, D-limonene), 3, III, (D/E), environmentally hazardous	Proper shipping name: UN1993, FLAMMABLE LIQUID, N.O.S., (1-methoxy-2-propanol, dipentene), 3, III, (D/E), environmentally hazardous
14.8	Proper shipping name: UN1993, FLAMMABLE LIQUID, N.O.S., (1-METHOXY-2-PROPANOL, D-limonene), 3, III, ≤60°C c.c., MARINE POLLUTANT	Proper shipping name: UN1993, FLAMMABLE LIQUID, N.O.S., (1-methoxy-2-propanol, dipentene), 3, III, ≤60°C c.c., MARINE POLLUTANT
14.8	Proper shipping name: UN1993, Flammable liquid, n.o.s., (1-METHOXY-2-PROPANOL, D-limonene), 3, III	Proper shipping name: UN1993, Flammable liquid, n.o.s., (1-methoxy-2-propanol, dipentene), 3, III
15.1		Dangerous substances with restrictions (REACH, Annex XVII): 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
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)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
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

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Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
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)
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
EmS	Emergency Schedule
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
Flam. Liq.	Flammable liquid
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)
ICAO	International Civil Aviation Organization
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
LOEC	Lowest Observed Effect Concentration
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

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Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
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
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
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
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Rasant 030

List of relevant phrases (code and full text as stated in chapter 2 and 3)	
Code	Text
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.