



Safety Data Sheet

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

Lösonit

Version number: 3.0
Replaces version of: 2016-06-06 (2)

Revision: 2020-09-25
First version: 2015-11-27

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

1.1 Product identifier

Trade name	<u>Lösonit</u>
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
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1.3 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
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e-mail (competent person)	info@uniter.com
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National contact	++49 (0) 2153 - 9789 - 15
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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	2	Eye Irrit. 2	H319
3.4S	skin sensitisation	1	Skin Sens. 1	H317
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

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Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.9	specific target organ toxicity - repeated exposure	1	STOT RE 1	H372
3.10	aspiration hazard	1	Asp. Tox. 1	H304
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.
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, GHS07,
GHS08, GHS09



Hazard statements

- H226** Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure (if inhaled).
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Precautionary statements

P308+P311	IF exposed or concerned: Call a POISON CENTER or doctor.
P331	Do NOT induce vomiting.
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

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazardous ingredients for labelling	(R)-p-mentha-1,8-diene hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) hydrocarbons, C9, aromatics
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2.3 Other hazards

There is no additional information.

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
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics	EC No 919-446-0 REACH Reg. No 01-2119458049-33-XXXX	25 - < 50	Flam. Liq. 3 / H226 STOT SE 3 / H336 STOT RE 1 / H372 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC No 919-164-8 REACH Reg. No 01-2119473977-17-xxxx	25 - < 50	STOT RE 1 / H372 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412		

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Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
hydrocarbons, C9, aromatics	EC No 918-668-5 REACH Reg. No 01-2119455851-35-xxxx	10 – < 25	Flam. Liq. 3 / H226 STOT SE 3 / H335 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	   	
(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	5 – < 10	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	  	C(b) GHS-HC
alcohols, C12-14, ethoxylated, propoxylated	CAS No 68439-51-0	1 – < 3	Aquatic Chronic 3 / H412		
Alcohols, C12-14, ethoxylated	CAS No 68439-50-9	1 – < 3	Eye Dam. 1 / H318 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)

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.

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus.

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth. Do not induce vomiting.
Alopecia (limited area).
Call a physician immediately.

Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.
Death following aspiration.

4.3 Indication of any immediate medical attention and special treatment needed

Subsequent observance for pneumonia and pulmonary oedema.

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

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.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

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

use suitable 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.

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

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

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.

Use only in well-ventilated areas.

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.

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 sources of ignition - No smoking.

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.

Do not mix with

strong oxidisers

Protect against external exposure, such as

heat

Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

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
GB	aromatics		WEL		500				EH40/2005
GB	cycloalkanes (>C7)		WEL		800				EH40/2005
GB	normal and branched chain alkanes (>C7)		WEL		1,200				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	EC No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics	919-446-0	DNEL	330 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics	919-446-0	DNEL	21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics	919-446-0	DNEL	71 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics	919-446-0	DNEL	12 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics	919-446-0	DNEL	21 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	EC No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
hydrocarbons, C9, aromatics	918-668-5	DNEL	32 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
hydrocarbons, C9, aromatics	918-668-5	DNEL	11 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
hydrocarbons, C9, aromatics	918-668-5	DNEL	25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
hydrocarbons, C9, aromatics	918-668-5	DNEL	150 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
hydrocarbons, C9, aromatics	918-668-5	DNEL	11 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
(R)-p-mentha-1,8-diene	227-813-5	DNEL	66.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	227-813-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	227-813-5	DNEL	16.6 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
(R)-p-mentha-1,8-diene	227-813-5	DNEL	4.8 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
(R)-p-mentha-1,8-diene	227-813-5	DNEL	4.8 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
(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

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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: 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.

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	Characteristic

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Odour threshold	no data available
Other safety parameters	
pH (value)	These information are not available
Melting point/freezing point	These information are not available
Initial boiling point and boiling range	135 °C
Flash point	40 °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	200 Pa at 298 K
Density	0.72 – 1 g/cm ³
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	>200 °C
Relative self-ignition temperature for solids	Not relevant (Fluid)
Decomposition temperature	These information are not available
Viscosity	
Kinematic viscosity	<20 mm ² /s at 20 °C
Dynamic viscosity	These information are not available
Explosive properties	Not explosive
Oxidising properties	Shall not be classified as oxidising

9.2 Other information

Temperature class (EU, acc. to ATEX) T3

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

No known hazardous reactions.

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

There is no additional information.

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.

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Acute toxicity of components of the mixture									
Name of substance	CAS No	EC No	Exposure route	End-point	Value	Species	Method	Source	Notes
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	oral	LD0	>15,000 mg/kg	rat	OECD Guideline 401	ECHA	
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	dermal	LD0	3,400 mg/kg	rabbit		ECHA	
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	oral	LD0	>15,000 mg/kg	rat	OECD Guideline 401	ECHA	
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	dermal	LD0	~3,400 mg/kg	rat		ECHA	
hydrocarbons, C9, aromatics		918-668-5	oral	LD50	3,492 mg/kg	rat, female		ECHA	
hydrocarbons, C9, aromatics		918-668-5	dermal	LD50	>3,160 mg/kg	rabbit	OECD Guideline 402	ECHA	
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	oral	LD50	>2,000 mg/kg	rat	OECD Guideline 423	ECHA	
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	dermal	LD50	>5,000 mg/kg	rabbit	OECD Guideline 402	ECHA	weight of evidence
alcohols, C12-14, ethoxylated, propoxylated	68439-51-0		oral	LD50	>2,000 - <5,000 mg/kg	rat	OECD Guideline 401	manufacturer	
alcohols, C12-14, ethoxylated, propoxylated	68439-51-0		dermal	LD50	>5,000 mg/kg	rat	OECD Guideline 402	manufacturer	
Alcohols, C12-14, ethoxylated	68439-50-9		oral	LD50	>2,000 mg/kg	rat		manufacturer	

Skin corrosion/irritation

Classification could not be established because:

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

Serious eye damage/eye irritation

Causes serious eye irritation.

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

Classification could not be established because:

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

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Causes damage to organs (central nervous system) through prolonged or repeated exposure (if inhaled).

Aspiration hazard

May be fatal if swallowed and enters airways.

Other information

Repeated exposure may cause skin dryness or cracking.

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

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Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	LL50	10 – 30 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA	read-across	96 h
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	EL50	2.3 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	read-across	72 h
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	EL50	10 – 22 mg/l	daphnia magna	OECD Guideline 202	ECHA	read-across	48 h
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	EL50	43.98 mg/l	Tetrahymena pyriformis	Qsar	ECHA		48 h
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	ErC50	1.2 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	read-across	96 h
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	LL50	10 – 30 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA		96 h

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Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	EL50	2.3 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	EL50	10 – 22 mg/l	daphnia magna	OECD Guideline 202	ECHA		48 h
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	EL50	43.98 mg/l	Tetrahymena pyriformis	Qsar	ECHA		48 h
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	ErC50	1.2 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		96 h
hydrocarbons, C9, aromatics		918-668-5	EL50	3.2 mg/l	daphnia magna	OECD Guideline 202	ECHA		48 h
hydrocarbons, C9, aromatics		918-668-5	EL50	2.6 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h
hydrocarbons, C9, aromatics		918-668-5	LL50	9.2 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA		96 h
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	LC50	720 µg/l	fathead minnow (Pimephales promelas)	OECD Guideline 203	ECHA		96 h

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Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	ErC50	0.32 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	EC50	0.214 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	EC50	0.307 mg/l	daphnia magna	OECD Guideline 202	ECHA		48 h
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	EC50	688 µg/l	fathead minnow (Pimephales promelas)	OECD Guideline 203	ECHA		96 h
alcohols, C12-14, ethoxylated, propoxylated	68439-51-0		LC50	>1 – <10 mg/l	orfe (Leuciscus idus)	DIN 38412 T.15	manufacturer		96 h
alcohols, C12-14, ethoxylated, propoxylated	68439-51-0		EC50	>1 – 10 mg/l	daphnia magna	OECD Guideline 202	manufacturer		24 h
alcohols, C12-14, ethoxylated, propoxylated	68439-51-0		EC50	>1 – 10 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	manufacturer		72 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

Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
hydrocarbons, C9-C12, n-alkanes, isoalkanes,		919-446-0	EL50	1.19 mg/l	daphnia magna	OECD Guideline 211	ECHA	read-across	21 d

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Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
cyclics, 2-25% aromatics									
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	EC50	0.328 mg/l	daphnia magna	OECD Guideline 211	ECHA	read-across	21 d
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	LOEC	0.203 mg/l	daphnia magna	OECD Guideline 211	ECHA	read-across	21 d
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	NOEC	0.097 mg/l	daphnia magna	OECD Guideline 211	ECHA	read-across	21 d
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	NOEC	0.16 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	read-across	72 h
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics		919-446-0	growth (EbCx) 10%	0.109 mg/l	daphnia magna	OECD Guideline 211	ECHA	read-across	21 d

Lösonit

Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	EL50	1.19 mg/l	daphnia magna	OECD Guideline 211	ECHA	Basis for effect: reproduction	21 d
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	EC50	0.328 mg/l	daphnia magna	OECD Guideline 211	ECHA	Basis for effect: reproduction	21 d
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	LOEC	0.203 mg/l	daphnia magna	OECD Guideline 211	ECHA	Basis for effect: reproduction	21 d
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	NOEC	0.16 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	NOEC	0.372 mg/l	daphnia magna	OECD Guideline 211	ECHA		21 d
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	NOELR	0.28 mg/l	daphnia magna	OECD Guideline 211	ECHA	Basis for effect: reproduction	21 d

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Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	NOELR	0.76 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		919-164-8	growth (EbCx) 10%	0.109 mg/l	daphnia magna	OECD Guideline 211	ECHA		21 d
hydrocarbons, C9, aromatics		918-668-5	EC50	>99 mg/l	activated sludge of a predominantly domestic sewage	OECD Guideline 209	ECHA		10 min
hydrocarbons, C9, aromatics		918-668-5	NOEC	0.07 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h
hydrocarbons, C9, aromatics		918-668-5	NOEC	>99 mg/l	activated sludge of a predominantly domestic sewage	OECD Guideline 209	ECHA		10 min
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	EC50	188 µg/l	daphnia magna	OECD Guideline 211	ECHA		21 d
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	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	227-813-5	EC50	209 mg/l	activated sludge of a predominantly domestic sewage	OECD Guideline 209	ECHA		3 h

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Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	LC50	0.41 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 212	ECHA		8 d
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	NOEC	0.059 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 212	ECHA		8 d
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	NOEC	80 µg/l	daphnia magna	OECD Guideline 211	ECHA		21 d
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	NOEC	0.09 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		48 h
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	LOEC	0.19 mg/l	fathead minnow (Pimephales promelas)	OECD Guideline 212	ECHA		8 d
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	LOEC	173 µg/l	daphnia magna	OECD Guideline 211	ECHA		21 d
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	growth (EbCx) 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	227-813-5	growth (EbCx) 10%	153 µg/l	daphnia magna	OECD Guideline 211	ECHA		21 d
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	growth (EbCx) 10%	18 mg/l	activated sludge of a predominantly domestic sewage	OECD Guideline 209	ECHA		3 h
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	growth (EbCx) 10%	0.149 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	growth rate (ErCx) 10%	0.174 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		72 h

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Name of substance	CAS No	EC No	End-point	Value	Species	Method	Source	Notes	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	growth rate (Er-Cx) 20%	0.17 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA		48 h
alcohols, C12-14, ethoxylated, propoxylated	68439-51-0		EC10	>0.11 – 1 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	manufacturer		72 h
alcohols, C12-14, ethoxylated, propoxylated	68439-51-0		EC10	>0.1 – <10 mg/l	daphnia magna	OECD Guideline 211	manufacturer		21 d

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	EC No	Process	Degradation rate	Time	Method	Source	Notes
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics	919-446-0	oxygen depletion	74.7 %	28 d	OECD Guideline 301 F	ECHA	read-across
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	919-164-8	oxygen depletion	74.7 %	28 d	OECD Guideline 301 F	ECHA	
hydrocarbons, C9, aromatics	918-668-5	oxygen depletion	78 %	28 d	OECD Guideline 301 F	ECHA	
(R)-p-mentha-1,8-diene	227-813-5	carbon dioxide generation	71.4 %	28 d	OECD Guideline 301 B	ECHA	

Biodegradation

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

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Persistence

No data available.

12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

Bioaccumulative potential of components of the mixture

Name of substance	EC No	BCF	Log KOW
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	919-164-8	105	4.2 – 7.2
hydrocarbons, C9, aromatics	918-668-5	≥39.8 – ≤177.8	~4
(R)-p-mentha-1,8-diene	227-813-5		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

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.

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SECTION 14: Transport information

14.1	UN number	3295
14.2	UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
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)	hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics
14.6	Special precautions for user	-
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	-
14.8	<u>Information for each of the UN Model Regulations</u>	
	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).	
	UN number	3295
	Proper shipping name	UN3295, HYDROCARBONS, LIQUID, N.O.S., 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)
	Excepted quantities (EQ)	E1
	Limited quantities (LQ)	5 L
	Transport category (TC)	3
	Tunnel restriction code (TRC)	D/E
	Hazard identification No	30
	Emergency Action Code	3Y
	International Maritime Dangerous Goods Code (IMDG)	

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UN number	3295
Proper shipping name	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, 40°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
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, S-D
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	3295
Proper shipping name	UN3295, Hydrocarbons, liquid, n.o.s., 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

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
Lösonit	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics	flammable / pyrophoric		R40
hydrocarbons, C9, aromatics	flammable / pyrophoric		R40
(R)-p-mentha-1,8-diene	flammable / pyrophoric		R40

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.

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Legend

- 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,
 - 'whoopee' 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.

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)

Notation

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

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Labelling of contents	
Wt%	Constituents
≥30%	aromatic hydrocarbons aliphatic hydrocarbons
< 5 %	non-ionic surfactants
	perfumes (D-LIMONENE)

Water Framework Directive (WFD)

None of the ingredients are listed.

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)
1.2	e-Mail address of competent person responsible for the SDS: info@uniter.com	
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
1.3		e-mail (competent person): info@uniter.com
1.3		National contact: ++49 (0) 2153 - 9789 - 15

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Indication of changes (revised safety data sheet)		
Section	Former entry (text/value)	Actual entry (text/value)
1.4		Poison centre: change in the listing (table)
2.2		Hazard statements: change in the listing (table)
2.2		Precautionary statements: change in the listing (table)
2.2		Supplemental hazard information
2.2	Hazardous ingredients for labelling: D-limonene, Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics, Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, Aromatics (2-25%), Hydrocarbons, C9, aromatics	Hazardous ingredients for labelling: (R)-p-mentha-1,8-diene hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) hydrocarbons, C9, aromatics
3.2		Hazardous ingredients: change in the listing (table)
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components of the mixture: change in the listing (table)
8.2		Protective gloves: change in the listing (table)
8.2	Respiratory protection: Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Blue/White).	Respiratory protection: Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).
14.8	Proper shipping name: UN3295, HYDROCARBONS, LIQUID, N.O.S., (contains: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics, D-limonene), 3, III, (D/E), environmentally hazardous	Proper shipping name: UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (D/E), environmentally hazardous
14.8	Emergency Action Code: 3YE	Emergency Action Code: 3Y
14.8	Proper shipping name: UN3295, HYDROCARBONS, LIQUID, N.O.S., (contains: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics, D-limonene), 3, III, 40°C c.c., MARINE POLLUTANT	Proper shipping name: UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, 40°C c.c., MARINE POLLUTANT

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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: UN3295, Hydrocarbons, liquid, n.o.s., (contains: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics, D-limonene), 3, III	Proper shipping name: UN3295, Hydrocarbons, liquid, n.o.s., 3, III
15.1	Restrictions according to REACH, Annex XVII: none of the ingredients are listed	Restrictions according to REACH, Annex XVII
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
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
Asp. Tox.	Aspiration hazard
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
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
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances

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Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
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
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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
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
NOELR	No Observed Effect Loading Rate
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

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Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (central nervous system) through prolonged or repeated exposure (if inhaled).

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

C.S.B. GmbH
Düsseldorfer Str. 113
47809 Krefeld, Germany

Telephone: +49 (0) 2151 - 652086 - 0
Telefax: +49 (0) 2151 - 652086 - 9
e-Mail: info@csb-online.de
Website: www.csb-online.de

Disclaimer

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