

Safety Data Sheet

according to UK REACH Regulation

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Print date: 13.03.2023

Revision date: 07.03.2023

VPW 80

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

1.1. Product identifier

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

Use of the substance/mixture

Aerosol

Lubricant, lubricants and release products

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	Meusburger Georg GmbH & Co KG	
Street:	Kesselstrasse 42	
Place:	A-6960 Wolfurt	
Telephone:	+43 5574 6706-0	Telefax: +43 5574 6706-12
e-mail:	office@meusburger.com	
Internet:	www.meusburger.com	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Muenster	e-mail: info@tge-consult.de Tel.: +49 2534 41594-0 www.tge-consult.de

1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

Further Information

Safety Data Sheet according to UK-REACH Regulation

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229

Asp. Tox. 1; H304

Skin Irrit. 2; H315

STOT SE 3; H336

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

White mineral oil (petroleum)

Signal word: Danger

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Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P273	Avoid release to the environment.
P391	Collect spillage.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

EUH208	Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts. May produce an allergic reaction.
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2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
 The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH.
 This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No EC No REACH No Index No	Chemical name	Quantity
	GHS Classification	
921-024-6 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane	10 - <25 %
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	10 - <25 %

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920-750-0 01-2119473851-33	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066	
8042-47-5 232-455-8 01-2119487078-27	White mineral oil (petroleum) Asp. Tox. 1; H304	>0,1 - 2,5 %
111-76-2 203-905-0 01-2119475108-36 603-014-00-0	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319	0,5 - 2,5 %
947-519-7 01-2120765489-36	Reaction products of benzenesulfonic acid, mono-C20-24 (even) -sec-alkyl derivs. para-, calcium salts Skin Sens. 1B; H317	0,5 - 2,5 %
78330-21-9 934-084-3	Alcohols, C11-14-iso, C13-rich, ethoxylated Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 3; H319 H400 H412	>0,1 - <0,25 %

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
	921-024-6	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane	10 - <25 %
		inhalation: LC50 = > 25,2 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
	920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	10 - <25 %
		inhalation: LC50 = > 23,3 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = >5000 mg/kg	
8042-47-5	232-455-8	White mineral oil (petroleum)	>0,1 - 2,5 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
111-76-2	203-905-0	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	0,5 - 2,5 %
		inhalation: ATE 3 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: ATE 1200 mg/kg	
	947-519-7	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts	0,5 - 2,5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 - < 20000 mg/kg Skin Sens. 1B; H317: >= 10 - 100	
78330-21-9	934-084-3	Alcohols, C11-14-iso, C13-rich, ethoxylated	>0,1 - <0,25 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 500-2000 mg/kg	

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Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Caution if victim vomits: Risk of aspiration! Call a physician immediately.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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General advice

Ventilate affected area. Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray on naked flames or any incandescent material. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

Always close containers tightly after the removal of product.

Do not eat, drink, smoke or sneeze at the workplace.

Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.

Provide adequate ventilation.

Hints on joint storage

Do not store together with: Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases.

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Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Radioactive substances.
Infectious substances.

Further information on storage conditions

Recommended storage temperature: 10-30 °C. Do not store at temperatures over: 50 °C

Note: Storage requirements for flammable aerosols.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane			
	Worker DNEL, long-term	inhalation	systemic	2 035 mg/m ³
	Worker DNEL, long-term	dermal	systemic	773 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	608 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	699 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	699 mg/kg bw/day
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics			
	Worker DNEL, long-term	inhalation	systemic	2035 mg/m ³
	Worker DNEL, long-term	dermal	systemic	773 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	608 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	699 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	699 mg/kg bw/day
8042-47-5	White mineral oil (petroleum)			
	Worker DNEL, long-term	inhalation	systemic	164,56 mg/m ³

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Worker DNEL, long-term	dermal	systemic	217,05 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	34,78 mg/m ³
Consumer DNEL, long-term	dermal	systemic	93,02 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	25 mg/kg bw/day
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve		
Worker DNEL, long-term	inhalation	systemic	98 mg/m ³
Worker DNEL, acute	inhalation	systemic	1091 mg/m ³
Worker DNEL, acute	inhalation	local	246 mg/m ³
Worker DNEL, long-term	dermal	systemic	125 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	89 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	6,3 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	26,7 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	59 mg/m ³
Consumer DNEL, acute	inhalation	systemic	426 mg/m ³
Consumer DNEL, acute	inhalation	local	147 mg/m ³
Consumer DNEL, long-term	dermal	systemic	75 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	89 mg/kg bw/day
	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts		
Worker DNEL, long-term	inhalation	systemic	17,63 mg/m ³
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term	dermal	local	1,05 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic	4,35 mg/m ³
Consumer DNEL, long-term	dermal	systemic	12,5 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	0,526 mg/cm ²
Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day

PNEC values

CAS No	Substance	Value
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	
	Freshwater	8,8 mg/l
	Freshwater (intermittent releases)	26,4 mg/l
	Marine water	0,88 mg/l
	Freshwater sediment	34,6 mg/kg
	Marine sediment	3,46 mg/kg
	Secondary poisoning	20 mg/kg
	Micro-organisms in sewage treatment plants (STP)	463 mg/l
	Soil	2,33 mg/kg

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Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts	
Freshwater	0,1 mg/l
Freshwater (intermittent releases)	1 mg/l
Marine water	0,1 mg/l
Freshwater sediment	166,32 mg/kg
Marine sediment	166,32 mg/kg
Micro-organisms in sewage treatment plants (STP)	1000 mg/l
Soil	33,12 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material:

Butyl rubber. (0,5 mm)

Breakthrough time >480 min

Penetration time (maximum wearing period): >160 min

The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 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.

Skin protection

Protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Use only respiratory protection equipment with CE-symbol including four digit test number.

Thermal hazards

No special precautionary measures are necessary.

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Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	green	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		0,9
Upper explosion limits:		10,9
Flash point:		-97 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		insoluble
Solubility in other solvents		
not determined		
Dissolution rate:		not relevant
Partition coefficient n-octanol/water:		not determined
Dispersion stability:		not relevant
Vapour pressure:		4600 hPa
(at 20 °C)		
Density (at 20 °C):		0,63 g/cm ³
Bulk density:		not determined
Relative vapour density:		not determined
Particle characteristics:		not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Sustaining combustion: No data available

Self-ignition temperature

Solid: not relevant

Gas: not determined

Oxidizing properties

none

Other safety characteristics

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: not determined

Solid content: not determined

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Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Viscosity / dynamic:	not determined
Flow time:	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.
Refer to chapter 10.5.

10.4. Conditions to avoid

Keep away from heat.
Ignition hazard.
Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Further information

In use, may form flammable/explosive vapour-air mixture.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 31200,0 mg/kg; ATE (inhalation vapour) 78,00 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane				
	oral	LD50 mg/kg >2000	Rat.	ECHA dossier	read-across
	dermal	LD50 mg/kg >2000	Rabbit	ECHA dossier	read-across
	inhalation (4 h) vapour	LC50 mg/l > 25,2	Rat.	ECHA dossier	OECD 403
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics				

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	oral	LD50 >5000 mg/kg	Rat	ECHA dossier	
	dermal	LD50 > 2800 - 3100 mg/kg	Rat	ECHA dossier	
	inhalation (4 h) vapour	LC50 > 23,3 mg/l	Rat	ECHA dossier	OECD 403
8042-47-5	White mineral oil (petroleum)				
	oral	LD50 > 5000 mg/kg	Rat	ECHA dossier	OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA dossier	OECD 402
	inhalation (4 h) dust/mist	LC50 >5 mg/l	Rat		
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve				
	oral	ATE 1200 mg/kg			
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1993)	OECD Guideline 402
	inhalation vapour	ATE 3 mg/l			
	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts				
	oral	LD50 > 10000 - < 20000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 2000 mg/kg	Rat	ECHA Dossier	OECD Guideline 402
78330-21-9	Alcohols, C11-14-iso, C13-rich, ethoxylated				
	oral	LD50 500-2000 mg/kg	Rat	SDS external	
	dermal	LD50 >2000 mg/kg	Rat	SDS external	

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

In-vitro mutagenicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Result: negative.

Literature information: ECHA dossier

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane:

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Subacute inhalative toxicity:
 Method: -
 Species: Rat
 Exposure duration: 3 d.
 Result: NOAEC = 4200 mg/m³.
 Literature information: ECHA dossier

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:
 Subchronic inhalation toxicity:
 Method OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-day Study)
 Species: Rat
 Exposure duration: 90 d
 Result: NOAEC = 5,8mg/l
 Literature information: ECHA dossier

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method	
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane						
	Acute fish toxicity	LC50 mg/l	11,4	96 h	Oncorhynchus mykiss	ECHA dossier	OECD 203
	Acute algae toxicity	ErC50	30 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA dossier	OECD 201
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna	ECHA dossier	OECD 202
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics						
	Acute fish toxicity	LL50 mg/l	3 - 10	96 h	Oncorhynchus mykiss	ECHA dossier	OECD 203
	Acute algae toxicity	ErC50	12 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA dossier	OECD 201
	Acute crustacea toxicity	EC50 mg/l	4.6 - 10	48 h	Daphnia magna	ECHA dossier	OECD 202
	Fish toxicity	NOEC mg/l	0,574	28 d	Oncorhynchus mykiss	ECHA dossier	
	Crustacea toxicity	NOEC mg/l	0,17	21 d	Daphnia magna	ECHA dossier	OECD 211
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	Acute fish toxicity	LC50 mg/l	> 10000	96 h	Lepomis macrochirus	ECHA dossier	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	ECHA dossier	OECD 202
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve						
	Acute fish toxicity	LC50 mg/l	1474	96 h	Oncorhynchus mykiss	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 203
	Acute algae toxicity	ErC50	911 mg/l	72 h	Pseudokirchneriella subcapitata	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	1550	48 h	Daphnia magna	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 202
	Fish toxicity	NOEC mg/l	> 100	21 d	Danio rerio	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 204
	Algae toxicity	NOEC	88 mg/l	3 d	Pseudokirchneriella subcapitata	ECHA Dossier	
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 211
	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts						
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	> 100	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Acute bacteria toxicity	(EC50 mg/l)	> 10000	3 h	activated sludge of a predominantly domestic sewage	ECHA Dossier	OECD Guideline 209
78330-21-9	Alcohols, C11-14-iso, C13-rich, ethoxylated						
	Acute fish toxicity	LC50 mg/l	>1-10	96 h	Danio rerio	SDS external	
	Acute algae toxicity	ErC50 mg/l	>=10	72 h	Scenedesmus subspicatus))	SDS external	
	Acute crustacea toxicity	EC50 mg/l	7,07	48 h	Daphnia magna	SDS external	
	Acute bacteria toxicity	>1000 g O2/g			Pseudomonas putida (17h)	SDS external	

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	98%	28	ECHA dossier

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	Easily biodegradable (concerning to the criteria of the OECD)			
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	98%	28	ECHA dossier
	Readily biodegradable (according to OECD criteria).			
8042-47-5	White mineral oil (petroleum)			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	31,3%	28	
	Product is not easily biodegradable.			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	90,4%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts			
	OECD Guideline 301 D	8%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
78330-21-9	Alcohols, C11-14-iso, C13-rich, ethoxylated			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	60%	28	SDS external
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane	2,89
8042-47-5	White mineral oil (petroleum)	> 6
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	0,81
	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts	>= 5,38

BCF

CAS No	Chemical name	BCF	Species	Source
	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts	27600	Fish	ECHA Dossier

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal recommendations

Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures; hazardous waste

List of Wastes Code - used product

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures; hazardous waste

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0
 Transport category: 2
 Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F

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Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Marine pollutant: YES
 Special Provisions: 63, 190, 277, 327, 344, 381, 959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, FLAMMABLE
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane
 Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

14.6. Special precautions for user

Refer to section 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40

2010/75/EU (VOC):	not determined
2004/42/EC (VOC):	not determined
Information according to 2012/18/EU (SEVESO III):	P3a FLAMMABLE AEROSOLS
Additional information:	E2

Additional information

Safety Data Sheet according to UK-REACH Regulation
 UK Aerosols Regulation
 UK REACH Appendix XVII, No (mixture): 3, 40
 The mixture is classified as hazardous according to GHS (GB CLP).

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1,0; Initial release 15.05.2018
 Rev. 2,0; Revision 03.04.2020, Changes in chapter: 2-16
 Rev. 3,0; Revision 07.03.2023, Changes in chapter: 2-16

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 CAS: Chemical Abstracts Service
 CLP: Classification, Labeling, Packaging
 DNEL: Derived No Effect Level
 d: day(s)
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 ECHA: European Chemicals Agency
 ECOSAR: Ecological Structure Activity Relationships
 EWC: European Waste Catalogue
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 IUCLID: International Uniform Chemical Information Database
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 OECD: Organisation for Economic Co-operation and Development
 PNEC: Predicted No Effect Concentration
 PBT: Persistent, bio-cumulative, toxic
 QSAR: Quantitative Structure-Activity Relationship
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 RTECS: Registry of Toxic Effects of Chemical Substances
 SVHC: Substance of Very High Concern
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 vPvB: very persistent and very bio-cumulative
 VOC: Volatile Organic Compounds
 w: week(s)

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts. May produce an allergic reaction.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)