

112 Brake spray 400 ml AB

Revision date: 22.10.2024

Product code: 1101054

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

1.1. Product identifier

112 Brake spray 400 ml AB

UFI:

JQY7-D02A-U006-701X

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

Use of the substance/mixture

Lubricant

1.3. Details of the supplier of the safety data sheet

Company name:	TUNAP GmbH & Co. KG	
Street:	Buergermeister-Seidl-Strasse 2	
Place:	D-82515 Wolfratshausen	
Telephone:	+49 (0) 8171/1600-0	Telefax: +49 (0) 8171/1600-40
E-mail:	sdb@tunap.com	
Internet:	www.tunap.com	
1.4. Emergency telephone	111 NHS (National Health Service)	

number:

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 Skin Sens. 1; H317 STOT SE 3; H336 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (R)-p-mentha-1,8-diene Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts Sulfonic acids, petroleum, calcium salts Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts

Danger

Signal word:

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.



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H412

Harmful 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.
P260	Do not breathe Aerosol.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P304+P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Relevant ingredients

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (GB CLP Regulation)	
75-28-5	isobutane	25 - < 50 %
	200-857-2 601-004-00-0 01-2119485395-27	
	Flam. Gas 1, Liquefied gas; H220 H280	
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	5 - < 10 %
	921-024-6 01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
74-98-6	propane	5 - < 10 %
	200-827-9 601-003-00-5 01-2119486944-21	
	Flam. Gas 1, Liquefied gas; H220 H280	
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	5 - < 10 %
	927-510-4 01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
106-97-8	butane	1 - < 3 %
	203-448-7 601-004-00-0 01-2119474691-32	
	Flam. Gas 1, Liquefied gas; H220 H280	
13463-67-7	titanium dioxide	1 - < 3 %
	236-675-5 022-006-00-2	
	Carc. 2; H351	
5989-27-5	(R)-p-mentha-1,8-diene	0.1 - < 1 %
	227-813-5 601-096-00-2 01-2119529223-47	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 3; H226 H315 H317 H304 H400 H412	
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	0.1 - < 1 %
	271-529-4 01-2119492627-25	
	Skin Sens. 1B; H317	
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	0.1 - < 1 %
	274-263-7 01-2119492616-28	
	Skin Sens. 1B; H317	
61789-86-4	Sulfonic acids, petroleum, calcium salts	0.1 - < 1 %
	263-093-9 01-2119488992-18	
	Skin Sens. 1B; H317	
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	0.1 - < 1 %
	939-603-7 01-2119978241-36	
	Skin Sens. 1B; H317	

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



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CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	Limits, M-factors and ATE	
64742-49-0	921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	5 - < 10 %
	inhalation: LC5 5000 mg/kg	0 = > 25,2 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = >	
64742-49-0	927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	5 - < 10 %
	inhalation: LC5 5500 mg/kg	0 = > 23,3 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 =	
13463-67-7	236-675-5	titanium dioxide	1 - < 3 %
	inhalation: LC5 10000 mg/kg	0 = > 6,8 mg/l (dusts or mists); dermal: LD50 = > 10000 mg/kg; oral: LD50 = >	
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene	0.1 - < 1 %
	dermal: LD50 =	- = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
68584-23-6	271-529-4	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	0.1 - < 1 %
		i0 = >5 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 ens. 1B; H317: >= 10 - 100	
70024-69-0	274-263-7	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	0.1 - < 1 %
		i0 = >5 mg/l (dusts or mists); dermal: LD50 = > 4000 mg/kg; oral: LD50 = > Skin Sens. 1B; H317: >= 10 - 100	
61789-86-4	263-093-9	Sulfonic acids, petroleum, calcium salts	0.1 - < 1 %
		0 = >5 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > Skin Sens. 1B; H317: >= 10 - 100	
1471316-72-9	939-603-7	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	0.1 - < 1 %
	dermal: LD50 = 10 - 100	= > 2000 mg/kg; oral: LD50 = > 10000 - < 20000 mg/kg Skin Sens. 1B; H317: >=	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media



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Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

Additional information

Danger of bursting container.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

For non-emergency personnel

First aider: Pay attention to self-protection!

For emergency responders

Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

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

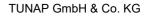
Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

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





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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

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

Further information on handling

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

Further information on storage conditions

Protect from frost. Protect from direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	_	4		TWA (8 h)	WEL



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes	, cyclics, < 5% n-hexane		
Worker DNEL	, long-term	inhalation	systemic	2035 mg/m ³
Worker DNEL	, long-term	dermal	systemic	773 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	systemic	608 mg/m ³
Consumer DN	NEL, long-term	dermal	systemic	699 mg/kg bw/da
Consumer DN	NEL, long-term	oral	systemic	699 mg/kg bw/da
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cy	clics		
Worker DNEL	, long-term	inhalation	systemic	2085 mg/m ³
Worker DNEL	., long-term	dermal	systemic	300 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	systemic	447 mg/m ³
Consumer DN	NEL, long-term	dermal	systemic	149 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	149 mg/kg bw/day
5989-27-5	(R)-p-mentha-1,8-diene		·	
Worker DNEL	., long-term	inhalation	systemic	66,7 mg/m³
Worker DNEL	., long-term	dermal	systemic	9,5 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	systemic	16,6 mg/m ³
	NEL, long-term	dermal	systemic	4,8 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	4,8 mg/kg bw/day
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl de	rivs., calcium salts		
Worker DNEL	., long-term	inhalation	systemic	11,75 mg/m ³
Worker DNEL	., long-term	dermal	systemic	3,33 mg/kg bw/day
Worker DNEL	., long-term	dermal	local	1,03 mg/cm ²
Consumer DN	NEL, long-term	inhalation	systemic	2,9 mg/m ³
Consumer DN	IEL, long-term	dermal	systemic	1,667 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	local	0,513 mg/cm ²
Consumer DN	IEL, long-term	oral	systemic	0,833 mg/kg bw/day
61789-86-4	Sulfonic acids, petroleum, calcium salts			
Worker DNEL	., long-term	inhalation	systemic	11,75 mg/m³
Worker DNEL	., long-term	dermal	systemic	3,33 mg/kg bw/day
Worker DNEL	., long-term	dermal	local	1,03 mg/cm ²
Consumer DN	NEL, long-term	inhalation	systemic	2,9 mg/m ³
Consumer DN	NEL, long-term	dermal	systemic	1,667 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	local	0,513 mg/cm ²
Consumer DN	IEL, long-term	oral	systemic	0,833 mg/kg bw/day
1471316-72- 9	Benzenesulfonic acids, di-C10-14-alkyl deriva	atives, calcium salts		
Worker DNEL	., acute	dermal	local	1,04 mg/cm ²



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Consumer DNEL, long-term	inhalation	systemic	8,7 mg/m³
Consumer DNEL, long-term	dermal	systemic	12,5 mg/kg bw/day
Consumer DNEL, acute	dermal	local	0,518 mg/cm ²
Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	35,26 mg/m ³
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day



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PNEC values

CAS No	Substance	
Environmenta	al compartment	Value
5989-27-5	(R)-p-mentha-1,8-diene	
Freshwater		0,014 mg/l
Marine water		0,0014 mg/l
Freshwater se	ediment	3,85 mg/kg
Marine sedim	ent	0,385 mg/kg
Secondary po	bisoning	133 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	1,8 mg/l
Soil		0,763 mg/kg
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	
Freshwater		1 mg/l
Freshwater (ir	ntermittent releases)	10 mg/l
Marine water		1 mg/l
Freshwater se	ediment	226000000 mg/kg
Marine sedim	ent	226000000 mg/kg
Secondary po	visoning	16,667 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	1000 mg/l
Soil		271000000 mg/kg
61789-86-4	Sulfonic acids, petroleum, calcium salts	
Freshwater		1 mg/l
Freshwater (ir	ntermittent releases)	10 mg/l
Marine water		1 mg/l
Freshwater se	ediment	226000000 mg/kg
Marine sedim	ent	226000000 mg/kg
Secondary po	bisoning	16,667 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	1000 mg/l
Soil		271000000 mg/kg
1471316-72- 9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	
Freshwater		0,1 mg/l
Freshwater (ir	ntermittent releases)	1 mg/l
Marine water		0,1 mg/l
Freshwater se	ediment	45211 mg/kg
Marine sedim	ent	45211 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	1000 mg/l
Soil		36739,74 mg/kg

Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long-term exposure:

d before next shift

blood (B)



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Urine (U)

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. EN 166

Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min Thickness of the glove material 0,45 mm EN ISO 374

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. When exceeding the relevant workplace exposure limits, note the following: Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Filtering device with filter or ventilator filtering device of type: AX Observe the wear time limits as specified by the manufacturer. Observe legal regulations and provisions.

Environmental exposure controls

Observe legal regulations and provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	grey	
Odour:	characteristic	
		Test method
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and	40- °C	
boiling range:		
Flammability:	not applicable	
	not applicable	
Lower explosion limits:	1,1 vol. %	
Upper explosion limits:	9,4 vol. %	
Flash point:	-80 °C	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	not determined	DIN 19268
Water solubility:	The study does not need to be conducted	
	because the substance is known to be	
	insoluble in water.	
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	not determined	
	not determined	
Vapour pressure:	not determined	

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Density (at 20 °C):	1,0856 g/cm³	DIN 51757
Relative vapour density:	not determined	
9.2. Other information		
Information with regard to	o physical hazard classes	
Self-ignition temperature		
Solid:	not applicable	
Gas:	not applicable	
Oxidizing properties		
Not oxidising.		
Other safety characteristi	cs	
Evaporation rate:	not determined	
Solid content:	not determined	

Solid content:

Further Information

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
4742-49-0	Hydrocarbons, C6-C7, n	-alkanes, isoalka	anes, cycl	lics, < 5% n-hexane		
	oral	LD50 > mg/kg	5000	Rat		
	dermal	LD50 > 3100 mg/kg	2800 -	Rat		
	inhalation (4 h) vapour	LC50 > mg/l	25,2	Rat		
64742-49-0	Hydrocarbons, C7, n-alk	anes, isoalkanes	s, cyclics	_		
	oral	LD50 55 mg/kg	500	Rat		
	dermal	LD50 > 3100 mg/kg	2800 -	Rat	Study report (1977)	The acute toxicity of SBP 100/140 was de
	inhalation (4 h) vapour	LC50 > mg/l	23,3	Rat	Study report (1988)	OECD Guideline 403
3463-67-7	titanium dioxide					
	oral	LD50 > mg/kg	10000	Rat		
	dermal	LD50 > mg/kg	10000	Rabbit		
	inhalation (4 h) dust/mist		6,8	Rat		
5989-27-5	(R)-p-mentha-1,8-diene					
	oral	LD50 > mg/kg	5000	Rat	GESTIS	
	dermal	LD50 > mg/kg	5000	Rabbit	GESTIS	
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts					
	oral	LD50 >: mg/kg	5000	Rat		
	dermal	LD50 >: mg/kg	5000	Rat		
	inhalation (4 h) dust/mist	LC50 >	5 mg/l	Rat		
70024-69-0	Benzenesulfonic acid, m	ono-C16-24-alky	yl derivs.,	calcium salts		
	oral	LD50 > mg/kg	16000	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 > mg/kg	4000	Rabbit	Study report (1986)	other: 40 CFR, Section 163.81-2, Federal
	inhalation (4 h) dust/mist	LC50 >	5 mg/l	Rat		
61789-86-4	Sulfonic acids, petroleun	n, calcium salts				
	oral	LD50 > mg/kg	16000	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal		5000	Rabbit	Study report (1981)	OECD Guideline 402
	inhalation (4 h) dust/mist		5 mg/l	Rat		
1471316-72- 9	Benzenesulfonic acids, o	di-C10-14-alkyl d	lerivatives	s, calcium salts		



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oral	·	_D50 < 20000 mg/l		Rat	5 1 (-)	Adult albino male Sprague-Dawley rats we
derm		_D50 mg/kg	> 2000	Rat	Study report (1989)	OECD Guideline 402

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

Sensitising effects

May cause an allergic skin reaction. ((R)-p-mentha-1,8-diene; Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts; Sulfonic acids, petroleum, calcium salts; Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Ingestion, Inhalation, Skin contact, Eye contact. Reference to other sections: 2.1, 4.2.

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
64742-49-0	Hydrocarbons, C6-C7, n-a	alkanes, iso	oalkanes, cycl	ics, < 5%	n-hexane		
	Acute fish toxicity	LC50 mg/l	> 1-10	96 h	Pimephales promelas		
	Acute algae toxicity	ErC50 mg/l	10 - 30	72 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 1-10	48 h	Daphnia magna		
	Fish toxicity	NOEC mg/l	2,045	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
64742-49-0	Hydrocarbons, C7, n-alka	nes, isoalk	anes, cyclics			• •	•
	Acute fish toxicity	LL50 mg/l	> 13,4	96 h	Oncorhynchus mykiss	Study report (2004)	OECD Guideline 203
	Acute algae toxicity	ErC50	12 mg/l	72 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	>1 - 10	48 h	Daphnia magna		
	Fish toxicity	NOEC mg/l	1,534	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
13463-67-7	titanium dioxide						
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	61 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	> 10	48 h	Daphnia pulex		
	Fish toxicity	NOEC mg/l	> 1000		Leuciscus idus (golden orfe)		
	Algae toxicity	NOEC	1 mg/l	3 d	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC	> 3 mg/l	30 d	Daphnia magna		
5989-27-5	(R)-p-mentha-1,8-diene			-			-
	Acute fish toxicity	LC50	0,7 mg/l	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 mg/l	0,42	48 h	Daphnia magna		
8584-23-6	Benzenesulfonic acid, C1	0-16-alkyl	derivs., calciu	m salts			
	Acute fish toxicity	LC50 mg/l	>10000	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 mg/l	>1000	96 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna		



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	Acute fish toxicity	LC50 mg/l	>10000	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	REACh Registration Dossier	EPA OTS 797.1300
	Acute bacteria toxicity	EC50 mg/l()	> 10000	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier	OECD Guideline 209
61789-86-4	Sulfonic acids, petroleum,	calcium sal	ts				
	Acute fish toxicity	LC50 mg/l	>10000	96 h	Pimephales promelas		
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	Study report (1994)	EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (1993)	EPA OTS 797.1300
	Acute bacteria toxicity	EC50 mg/l()	> 10000	3 h	activated sludge of a predominantly domestic sewag	Study report (1994)	OECD Guideline 209
1471316-72- 9	Benzenesulfonic acids, di-	C10-14-alky	/I derivatives	, calciun	n salts		
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	Study report (1994)	EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (1993)	EPA OTS 797.1300
	Acute bacteria toxicity	EC50 mg/l()	> 10000	3 h	activated sludge of a predominantly domestic sewag	Study report (1994)	OECD Guideline 209

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane				
	OECD Guideline 301 F	98%	28	ECHA	
		Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

The product has not been tested.



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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	2,8
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	3,4 - 5,2
74-98-6	propane	2,36
106-97-8	butane	2,89
5989-27-5	(R)-p-mentha-1,8-diene	4,23
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	18,05
61789-86-4	Sulfonic acids, petroleum, calcium salts	> 4,46
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	> 6,91

BCF

CAS No	Chemical name	BCF	Species	Source
	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	70,8	Fish, not further specified.	Study report (2013)

12.4. Mobility in soil

The product has not been tested.

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 product has not been tested.

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.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; 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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS



	112 Brake sp	ray 400 ml AB	
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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		
nland 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		
Special Provisions:	190 327 344 625		
Limited quantity:	1 L		
Excepted quantity:	E0		
Marine transport (IMDG)			
<u>14.1. UN number or ID number:</u>	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:	no		
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, flam	mable	
14.3. Transport hazard class(es):	2.1		
14.4. Packing group:	-		
Hazard label:	2.1		
Special Provisions:	A145 A167 A802		
Limited quantity Passenger: Passenger LQ:	30 kg G		
0	Y203 E0		
Excepted quantity: IATA-packing instructions - Passenger:	EU	203	
IATA-packing instructions - Passenger:		203 75 kg	
IATA-max. quantity - rassenger. IATA-packing instructions - Cargo:		203	
IATA-max. quantity - Cargo:		150 kg	
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user No information available.			
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 29, Entry 40, Er	ntry 75				
Directive 2010/75/EU on industrial emissions:	No information available.				
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.				
Additional information					
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Aerosol Directive (75/324/EEC)					
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				

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2.

Abbreviations and acronyms

Flam. Gas: Flammable gases Aerosol: Aerosols Liquefied gas Flam. Liq: Flammable liquids Asp. Tox: Aspiration hazard Skin Irrit: Skin irritation Skin Sens: Skin sensitisation Carc: Carcinogenicity STOT SE: Specific target organ toxicity - single exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA: International Air Transport Association IMDG: International Maritime Code for Dangerous Goods GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average ATE: Acute Toxicity Estimate STEL (EC) Short Term Exposure Limit LC50: Lethal Concentration EC50: half maximal Effective Concentration ErC50: means EC50 in terms of reduction of growth rate



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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"
Skin Sens. 1; H317	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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.

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