SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

Soudal Swipex

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

1.1 Product identifier:

Product name : Soudal Swipex
Registration number REACH : Not applicable
Product type REACH : Special carrier material containing a substance/preparation (Organic)
: The information refers to the substance/preparation (Organic)
: The substance is intended to be released under normal or reasonably foreseeable conditions of use. (Organic)

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

1.2.1 Relevant identified uses

Detergent

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the SDS

SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
Tel: +32 14 42 42 31
Fax: +32 14 44 39 71
msds@soudal.com

Producer of the product

SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
Tel: +32 14 42 42 31
Fax: +32 14 44 39 71
msds@soudal.com

1.4 Emergency telephone number:

24h/24h : +32 14 58 45 45 (BIG) (Telephone advice: English, French, German, Dutch):

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

2.2 Label elements:

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

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Supplemental information

EUH208 Contains D-limonene. May produce an allergic reaction.

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC
Contains: D-limonene. May produce an allergic reaction.

2.3 Other hazards:

DSD/DPD

© BIG vzw

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006

Slightly irritant to eyes

May produce an allergic reaction

CLP

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006

Slightly irritant to eyes

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
ethanol (01-2119457610-43)	64-17-5 200-578-6	1%<C<5%	F; R11	Flam. Liq. 2; H225 Eye Irrit. 2; H319	(1)(2)	Constituent
D-limonene (-)	5989-27-5 227-813-5	0.1%<C<1%	R10 Xi; R38 R43 N; R50-53	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(10)	Constituent

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(10) Enumerated in Annex XVII on restriction (Regulation (EC) No. 1907/2006)

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Not applicable.

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

4.2.1 Acute symptoms

After inhalation:

Unlikely to cause harmful effects.

After skin contact:

Unlikely to cause harmful effects.

After eye contact:

Slight irritation. ON CONTINUOUS EXPOSURE/CONTACT: Irritation of the eye tissue. Redness of the eye tissue.

After ingestion:

Unlikely to cause harmful effects.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

All extinguishing media allowed.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

Upon combustion: CO and CO2 are formed.

5.3 Advice for firefighters:

5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Heat/fire exposure: compressed air/oxygen apparatus. Gloves. Protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Pick-up the material. Clean contaminated surfaces with an excess of water.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Store in a cool area. Keep out of direct sunlight. Keep only in the original container. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer .

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Regulatory exposure limit (The Netherlands)

Ethanol	Short time value	1900 mg/m³	
	Short time value, calculated	992 ppm	
	Time-weighted average exposure limit 8 h	260 mg/m³	
	Time-weighted average exposure limit, calculated	136 ppm	

Limit Value (Belgium)

Alcool éthylique	Short time value	- ppm - mg/m³	
	Time-weighted average exposure limit 8 h	1000 ppm 1907 mg/m³	
Essence de térébenthine et monoterpènes sélectionnés	Short time value	- ppm - mg/m³	
	Time-weighted average exposure limit 8 h	20 ppm - mg/m³	

TLV (USA)

Ethanol	Short time value	1000 ppm	

TRGS 900 (Germany)

Ethanol	Time-weighted average exposure limit 8 h	500 ppm 960 mg/m³	
(R)-p-Mentha-1,8-dien (D-Limonen)	Time-weighted average exposure limit 8 h	20 ppm 110 mg/m³	

Limit Value (France)

Alcool éthylique	Short time value	5000 ppm 9500 mg/m³	
	Time-weighted average exposure limit 8 h	1000 ppm 1900 mg/m³	

Limit Value (UK)

Ethanol	Short time value	- ppm - mg/m³	
	Time-weighted average exposure limit 8 h	1000 ppm 1920 mg/m³	

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
Not applicable		

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

Workers

ethanol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute local effects inhalation	1900 mg/m³	
	Long-term systemic effects dermal	343 mg/kg bw/day	
	Long-term systemic effects inhalation	950 mg/m³	

D-limonene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute local effects dermal	222 µg/cm²	
	Long-term local effects inhalation	33.3 µg/cm²	

General population

ethanol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute local effects inhalation	950 mg/m³	
	Long-term systemic effects dermal	206 mg/kg bw/day	
	Long-term systemic effects inhalation	114 mg/m³	
	Long-term systemic effects oral	87 mg/kg bw/day	

D-limonene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute local effects dermal	111 µg/cm²	
	Long-term local effects inhalation	8.33 mg/m³	
	Long-term systemic effects oral	4.76 mg/kg bw/day	

PNEC

ethanol

Compartments	Value	Remark
Fresh water	0.96 mg/l	
Marine water	0.79 mg/l	
Fresh water sediment	3.6 mg/kg sediment dw	
Soil	0.63 mg/kg soil dw	
STP	580 mg/l	

(D-limonene

Compartments	Value	Remark
Fresh water	5.4 µg/l	
Marine water	0.54 µg/l	
STP	1.8 mg/l	
Fresh water sediment	1.32 mg/kg sediment dw	
Marine water sediment	0.13 mg/kg sediment dw	
Soil	0.262 mg/kg soil dw	
Oral	3.33 mg/kg food	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions. Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

c) Eye protection:

d) Skin protection:

Not required for normal conditions of use.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Moistened tissues
Odour	Pleasant odour
Odour threshold	No data available
Colour	White
Particle size	Not applicable
Explosion limits	No data available
Flammability	Contains (highly) flammable component(s) which do not involve any flammable risk
Log Kow	0.05 ; Test data
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Solubility	water ; soluble
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties

Oxidising properties	No chemical group associated with oxidising properties
pH	6

Physical hazards

No physical hazard class

9.2 Other information:

Absolute density	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity:

No data available.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Keep away from naked flames/heat.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

Soudal Swipex

No (test)data on the mixture available

ethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	OECD 401	10470 mg/kg bw		Rat	Male/female	Experimental value
Inhalation	LC50	Equivalent to OECD 403	124.7 mg/l air	4 h	Rat	Male/female	Experimental value

D-limonene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	OECD 423	> 2000 mg/kg bw		Rat	Female	Read-across
Dermal	LD50	Equivalent to OECD 402	>5000 mg/kg bw		Rabbit		Weight of evidence

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Soudal Swipex

No (test)data on the mixture available

ethanol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value
Skin	Not irritating	OECD 404		1; 2; 3; 4; 5; 7 days	Rabbit	Experimental value

D-limonene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

Soudal Swipex

No (test)data on the mixture available

ethanol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Dermal	Not sensitizing	Equivalent to OECD 429			Mouse	Male	Experimental value

D-limonene

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Sensitizing	OECD 429			Mouse	Female	Experimental value

Conclusion

Not sensitizing for inhalation

Contains a sensitising substance. May produce an allergic reaction.

Specific target organ toxicity

Soudal Swipex

No (test)data on the mixture available

ethanol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	LOAEL	Equivalent to OECD 408	4 ml/kg/day	Kidney	Weight changes	14 week(s)	Rat	Male/female	Experimental value
Inhalation	NOAEL	Other	>20 mg/l air	Liver	No effect	26 day(s)	Rat	Male	Experimental value

D-limonene

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	Equivalent to OECD 408	600 mg/kg bw/day		No effect	13 weeks (daily, 5 days/week)	Rat	Male/female	Experimental value
Oral	LOAEL	Equivalent to OECD 408	1200 mg/kg bw/day		Neoplastic effects	13 weeks (daily, 5 days/week)	Rat	Male/female	Experimental value
Oral	NOAEL	Equivalent to OECD 407	1650 mg/kg bw/day		No effect	2 weeks (daily, 5 days/week)	Mouse	Male/female	Experimental value
Oral	LOAEL	Equivalent to OECD 407	3300 mg/kg bw/day		Mortality	2 weeks (daily, 5 days/week)	Mouse	Male/female	Experimental value
Oral	NOAEL	Equivalent to OECD 408	500 mg/kg bw/day		No effect	13 weeks (daily, 5 days/week)	Mouse	Male/female	Experimental value
Oral	LOAEL	Equivalent to OECD 408	1000 mg/kg bw/day		Body weight reduction	13 weeks (daily, 5 days/week)	Mouse	Male	Experimental value
Oral	NOAEL	Equivalent to OECD 407	825 mg/kg bw/day		No effect	16 day(s)	Rat	Male	Experimental value
Oral	NOAEL	Equivalent to OECD 407	1650 mg/kg bw/day		No effect	16 day(s)	Rat	Female	Experimental value
Oral	LOAEL	Equivalent to OECD 407	1650 mg/kg bw/day		Weight reduction	16 day(s)	Rat	Male	Experimental value
Oral	LOAEL	Equivalent to OECD 407	3300 mg/kg bw/day		Weight reduction	16 day(s)	Rat	Female	Experimental value
Oral	NOAEL	Equivalent to OECD 409	100 mg/kg bw/day		No effect	180 day(s)	Dog	Female	Experimental value
Oral	LOAEL	Equivalent to OECD 409	1000 mg/kg bw/day	Kidney	Weight changes	180 day(s)	Dog	Female	Experimental value

Conclusion

Low sub-chronic toxicity by the dermal route

Low sub-chronic toxicity by the oral route

Mutagenicity (in vitro)

Soudal Swipex

No (test)data on the mixture available

ethanol

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value

D-limonene

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 479	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value

Mutagenicity (in vivo)

Soudal Swipex

No (test)data on the mixture available

ethanol

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative	Equivalent to OECD 478		Mouse	Male	General	Experimental value

Carcinogenicity

Soudal Swipex

No (test)data on the mixture available

ethanol

	Parameter	Method	Value	Exposure time	Species	Gender	Value determination	Organ	Effect
Oral	NOAEL	Equivalent to OECD 451	>4000 mg/kg bw/day	105 weeks (daily, 5 days/week)	Mouse	Female	Experimental value	Liver	Liver adenomas
Oral	NOAEL	Equivalent to OECD 451	>4250 mg/kg bw/day	105 weeks (daily, 5 days/week)	Mouse	Male	Experimental value	Liver	Liver adenomas

D-limonene

	Parameter	Method	Value	Exposure time	Species	Gender	Value determination	Organ	Effect
Oral	NOAEL	Equivalent to OECD 451	250-500 mg/kg bw/day	103 week(s)	Mouse	Male	Experimental value		No effect
Oral	NOAEL	Equivalent to OECD 451	500-1000 mg/kg bw/day	103 week(s)	Mouse	Female	Experimental value		No effect
Oral	NOAEL	Equivalent to OECD 451	75-150 mg/kg bw/day	103 week(s)	Rat	Male	Experimental value		No effect
Oral	NOAEL	Equivalent to OECD 451	300-600 mg/kg bw/day	103 week(s)	Rat	Female	Experimental value		No effect

Reproductive toxicity

Soudal Swipex

No (test)data on the mixture available

ethanol

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	LOAEL	Other	8200 mg/kg bw/day	6 week(s)	Rat		Reduced skeletal ossification		Experimental value
	NOAEL	Other	5200 mg/kg bw/day	6 week(s)	Rat		No effect	Foetus	Experimental value
	NOAEL	Equivalent to OECD 414	16000 ppm	19 days (gestation, daily)	Rat		Narcosis; reduced food consumption		Experimental value
	NOAEL	Equivalent to OECD 414	>= 20000 ppm	19 days (gestation, daily)	Rat				Experimental value
Effects on fertility	NOAEL (P)	Equivalent to OECD 416	21.5 mg/kg bw/day	18 week(s)	Mouse	Male/female	No effect		Experimental value
	NOAEL (F1)	Equivalent to OECD 416	13.8 mg/kg bw/day	18 week(s)	Mouse	Male/female	Reduction in sperm motility		Experimental value

D-limonene

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	NOAEL (P)		591 mg/kg bw/day	7 day(s)	Rat	Female	No effect	General	Weight of evidence
	NOAEL (F1)		591 mg/kg bw/day	7 day(s)	Rat	Male/female	No effect	skeleton	Weight of evidence
	NOAEL (F1)		>1000 mg/kg bw/day	13 day(s)	Rabbit	Male/female	No effect		Weight of evidence
	NOAEL (P)		250 mg/kg bw/day	13 day(s)	Rabbit	Female	No effect	General	Weight of evidence
	NOAEL (F1)		591 mg/kg bw/day	6 day(s)	Mouse	Male/female	No effect	skeleton	Weight of evidence
	NOAEL (P)		591 mg/kg bw/day	6 day(s)	Mouse	Female	No effect	General	Weight of evidence

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Soudal Swipex

No (test)data on the mixture available

Conclusion

No (test)data available

11.1.2 Other information

Soudal Swipex

No (test)data on the mixture available

ethanol

Listed in SZW - List of carcinogenic substances	yes
Listed in SZW - List of reprotoxic substances (breast feeding): category	May cause harm to breastfed babies
Listed in SZW - List of reprotoxic substances (development): category	Hazardous to the foetus
Listed in SZW - List of reprotoxic substances (fertility): category	May have an effect on fertility
TLV - Carcinogen	A3
IARC - classification	1
IARC - remark	alcohol drinking
MAK - Krebserzeugend Kategorie	5
MAK - Keimzellmutagen Kategorie	5

D-limonene

IARC - classification	3

SECTION 12: Ecological information

12.1 Toxicity:

Soudal Swipex

No (test)data on the mixture available

ethanol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	US EPA	15300 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value
	LC50	US EPA	11200 mg/l	24 h	Salmo gairdneri (Oncorhynchus mykiss)	Flow-through system	Fresh water	Experimental value
Acute toxicity invertebrates	LC50	ASTM E729-80	5012 mg/l	48 h	Ceriodaphnia dubia	Static system	Fresh water	Experimental value
	EC50	OECD 202	858 mg/l	24 h	Artemia salina		Salt water	Experimental value
	EC50	Other	>10000 mg/l	48 h	Daphnia magna		Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	Equivalent to OECD 201	275 mg/l	3 day(s)	Chlorella vulgaris	Static system	Fresh water	Experimental value
	EC10	Equivalent to OECD 201	11.5 mg/l	3 day(s)	Chlorella vulgaris	Static system	Fresh water	Experimental value
Long-term toxicity fish	ChV		245 mg/l	30 day(s)				QSAR
Long-term toxicity aquatic invertebrates	NOEC	Other	9.6 mg/l	10 day(s)	Ceriodaphnia dubia	Semi-static	Fresh water	Experimental value
	NOEC	Other	79 mg/l	12 day(s)	Palaemonetes pugio	Static system	Salt water	Experimental value
Toxicity aquatic micro-organisms	EC50	Other	5800 mg/l	4 h	Paramaecium caudatum	Static system	Fresh water	Experimental value
	TT	Other	6500 mg/l	16 h	Pseudomonas putida	Static system		
Toxicity sediment organisms	LC50	Other	8200 mg/kg sediment dw	18 h	Hyalella azteca	Static system	Fresh water	Experimental value
	LC50	Other	10100 mg/kg sediment dw	18 h	Palaemonetes kadiakensis	Static system	Fresh water	Experimental value
	LC50	Other	>100 mg/kg sediment dw	96 h	Lumbriculus variegatus	Static system	Fresh water	Experimental value

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	LC50	Other	>0.1/<1 mg/cm² test mat.	48 h	Eisenia fetida	Experimental value
Toxicity terrestrial plants	EC50	Other	633 mg/kg soil dw	3 day(s)	Lactuca sativa	Experimental value

D-limonene

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	720 µg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	OECD 202	0.36 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	OECD 201	150 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across
Long-term toxicity aquatic invertebrates	NOEC		0.115 mg/l	16 day(s)	Daphnia sp.		Fresh water	QSAR
Toxicity aquatic micro-organisms	EC50	OECD 209	209 mg/l	3 h	Bacteria	Static system	Fresh water	Read-across

Conclusion

Not classified for acute aquatic toxicity

12.2 Persistence and degradability:

ethanol

Biodegradation water

Method	Value	Duration	Value determination
Other	84 %	20 day(s)	Experimental value

ethanol

Phototransformation air (DT50 air)

	Value	Conc. OH-radicals	Value determination
	40 h	500000 /cm³	Calculated value

D-limonene

Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	80 %	28 day(s)	Read-across

Conclusion

Contains readily biodegradable component(s)

12.3 Bioaccumulative potential:

Soudal Swipex

Log Kow

Method	Value	Temperature	Value determination
	0.05		Test data

ethanol

Log Kow

Method	Value	Temperature	Value determination
	-0.35	20 °C	

D-limonene

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		864.8 - 1022		Pisces	QSAR

Log Kow

Method	Value	Temperature	Value determination
OECD 117	4.38	37 °C	Experimental value

Conclusion

No (test)data available

12.4 Mobility in soil:

Soudal Swipex

D-limonene

(log) Koc

Parameter	Method	Value	Value determination
Koc	SRC PCKOCWIN v2.0	1120 - 6324	QSAR

Conclusion

No (test)data on mobility of the substance available

12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

Soudal Swipex

Ozone-depleting potential (ODP)

Not dangerous for the ozone layer (1999/45/EC)

ethanol

Ozone-depleting potential (ODP)

Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)

D-limonene

Ozone-depleting potential (ODP)

Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, decision 2001/118/EC).
15 02 03 (absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02). Can be considered as non hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Incinerate under surveillance with energy recovery. Remove waste in accordance with local and/or national regulations. Do not discharge into surface

13.1.3 Packaging/Container

No data available.
(No data available).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

Transport	Not subject
UN number	-

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

Rail (RID)

14.1 UN number:

Transport	Not subject
UN number	-

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

Inland waterways (ADN)

14.1 UN number:

Transport	Not subject
UN number	-

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

Sea (IMDG)

14.1 UN number:

Transport	Not subject
UN number	-

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78	

Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject
UN number	-

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

SECTION 15: Regulatory information

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

European legislation:

Volatile organic compounds (VOC)

5 %

REACH Annex XVII - Restriction

Contains component(s) included in Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· ethanol · (R)-p-mentha-1,8-diene	Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/54/EC.	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.

		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
· ethanol · (R)-p-mentha-1,8-diene	Substances meeting the criteria of flammability in Directive 67/548/ EEC and classified as flammable, highly flammable or extremely flammable regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	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 (**).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. _____ (**) OJ L 147, 9.6.1975, p. 40.

National legislation

- The Netherlands

Waterbezwaarlijkheid (for NL)	11
Waste identification other lists of waste materials	LWCA (the Netherlands): KGA category 03

- Germany

WGK	1	Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
TA-Luft	ethanol	TA-Luft Klasse 5.2.5/I
TA-Luft	(R)-p-mentha-1,8-diene	TA-Luft Klasse 5.2.5/I

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

Full text of any R-phrases referred to under headings 2 and 3:

R10 Flammable
R38 Irritating to skin
R43 May cause sensitisation by skin contact
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of any H-statements referred to under headings 2 and 3:

H226 Flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense,

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