

Soudal Aquafix

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

1.1 Product identifier:

Product name : Soudal Aquafix
 Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Adhesive

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 safety data sheet

SODAL N.V.
 Everdongenlaan 18-20
 B-2300 Turnhout
 ☎ +32 14 42 42 31
 ☐ +32 14 42 65 14
 msds@soudal.com

Manufacturer of the product

SODAL N.V.
 Everdongenlaan 18-20
 B-2300 Turnhout
 ☎ +32 14 42 42 31
 ☐ +32 14 42 65 14
 msds@soudal.com

1.4 Emergency telephone number:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Flam. Liq.	category 2	H225: Highly flammable liquid and vapour.
Carc.	category 2	H351: Suspected of causing cancer.
Eye Irrit.	category 2	H319: Causes serious eye irritation.

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

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

F; R11 - Highly flammable.

Carc. Cat. 3; R40 - Limited evidence of a carcinogenic effect

R66 - Repeated exposure may cause skin dryness or cracking.

2.2 Label elements:

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

Classification and labelling according to Regulation (EU) No 487/2013, 4th adaptation of Regulation (EC) No 1272/2008 and after evaluation of available test data



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Contains vinyl acetate.

Signal word Danger

H-statements

H225 Highly flammable liquid and vapour.
H351 Suspected of causing cancer.
H319 Causes serious eye irritation.

P-statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves and eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

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

Labels



Highly flammable

R-phrases

40 Limited evidence of a carcinogenic effect
66 Repeated exposure may cause skin dryness or cracking

S-phrases

(02) (Keep out of the reach of children)
36/37 Wear suitable protective clothing and gloves
(46) (If swallowed, seek medical advice immediately and show this container or label)

2.3 Other hazards:

CLP

May be ignited by sparks
Gas/vapour spreads at floor level: ignition hazard
Slightly irritant to respiratory organs

DSD/DPD

May be ignited by sparks
Gas/vapour spreads at floor level: ignition hazard
Slightly irritant to respiratory organs

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
isobutyl acetate (-)	110-19-0 203-745-1	17.334% <C<34.669 %	F; R11 R66	Flam. Liq. 2; H225	(1)(2)(10)	Constituent
isopropyl acetate (01-2119537214-46)	108-21-4 203-561-1	6.934% <C <17.334%	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent

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vinyl acetate (-)	108-05-4 203-545-4	1.733%<C <3.467%	F; R11 Carc. Cat. 3; R40 Xn; R20 Xi; R37	Flam. Liq. 2; H225 Carc. 2; H351 Acute Tox. 4; H332 STOT SE 3; H335	(1)(2)(10)	Constituent
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- (1) For R-phrases and H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit
(10) Subject to restrictions of Annex XVII of 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:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

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

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

Irritation of the respiratory tract. Irritation of the nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Headache. Nausea. Dizziness. Disturbances of consciousness.

After skin contact:

ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

Nausea. Vomiting. AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Symptoms similar to those listed under inhalation.

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:

Alcohol-resistant foam. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

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:

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat.

5.3.2 Special protective equipment for fire-fighters:

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

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

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See heading 8.2

6.2 Environmental precautions:

Contain leaking substance. Dam up the liquid spill. Try to reduce evaporation. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Cover spill with inert material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

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. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: keep naked flames/sparks away. Gas/vapour heavier than air at 20°C. Observe strict hygiene. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: 20 °C. Ventilation at floor level. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Synthetic material.

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.

The Netherlands

Isobutylacetaat	Time-weighted average exposure limit 8 h	99 ppm 480 mg/m ³	Private occupational exposure limit value
Vinylacetaat	Short time value	10.04 ppm 36 mg/m ³	Public occupational exposure limit value
	Time-weighted average exposure limit 8 h	5.02 ppm 18 mg/m ³	Public occupational exposure limit value

EU

Vinyl acetate	Short time value	10 ppm 35.2 mg/m ³	Indicative occupational exposure limit value
	Time-weighted average exposure limit 8 h	5 ppm 17.6 mg/m ³	Indicative occupational exposure limit value

Belgium

Acétate d'isobutyle	Time-weighted average exposure limit 8 h	150 ppm 723 mg/m ³	
Acétate d'isopropyle	Short time value	200 ppm 849 mg/m ³	
	Time-weighted average exposure limit 8 h	100 ppm 424 mg/m ³	
Acétate de vinyle	Short time value	10 ppm 35.2 mg/m ³	
	Time-weighted average exposure limit 8 h	5 ppm 17.5 mg/m ³	

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USA (TLV-ACGIH)

Isobutyl acetate	Time-weighted average exposure limit 8 h	150 ppm	TLV - Adopted Value
Isopropyl acetate	Short time value	200 ppm	TLV - Adopted Value
	Time-weighted average exposure limit 8 h	100 ppm	TLV - Adopted Value
Vinyl acetate	Short time value	15 ppm	TLV - Adopted Value
	Time-weighted average exposure limit 8 h	10 ppm	TLV - Adopted Value

Germany

Vinylacetat	Time-weighted average exposure limit 8 h	5 ppm 18 mg/m ³	TRGS 900
Isobutylacetat	Time-weighted average exposure limit 8 h	62 ppm 300 mg/m ³	TRGS 900

France

Acétate d'isobutyle	Short time value	200 ppm 940 mg/m ³	VL: Valeur non réglementaire indicative
	Time-weighted average exposure limit 8 h	150 ppm 710 mg/m ³	VL: Valeur non réglementaire indicative
Acétate d'isopropyle	Short time value	300 ppm 1140 mg/m ³	VL: Valeur non réglementaire indicative
	Time-weighted average exposure limit 8 h	250 ppm 950 mg/m ³	VL: Valeur non réglementaire indicative
Acétate de vinyle	Short time value	10 ppm 35.2 mg/m ³	VRC: Valeur réglementaire contraignante
	Time-weighted average exposure limit 8 h	5 ppm 17.6 mg/m ³	VRC: Valeur réglementaire contraignante

UK

Isobutyl acetate	Short time value	187 ppm 903 mg/m ³	Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	150 ppm 724 mg/m ³	Workplace exposure limit (EH40/2005)
Isopropyl acetate	Short time value	200 ppm 849 mg/m ³	Workplace exposure limit (EH40/2005)
Vinyl acetate	Short time value	10 ppm 35.2 mg/m ³	Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	5 ppm 17.6 mg/m ³	Workplace exposure limit (EH40/2005)

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
Isobutyl Acetate (Esters I)	NIOSH	1450
Isopropyl Acetate	NIOSH	1454
Isopropyl Acetate	OSHA	7
Isopropyl Acetate	NIOSH	1460
Vinyl Acetate	NIOSH	1453
Vinyl Acetate	NON	21
Vinyl Acetate	OSHA	51

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

DNEL - Workers

vinyl acetate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	17.6 mg/m ³	
	Acute systemic effects inhalation	35.2 mg/m ³	
	Long-term local effects inhalation	17.6 mg/m ³	
	Acute local effects inhalation	35.2 mg/m ³	
	Long-term systemic effects dermal	0.42 mg/kg bw/day	

8.1.5 Control banding

If applicable and available it will be listed below.

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8.2 Exposure controls:

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8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: keep naked flames/sparks away. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

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:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Gloves.

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck protection. Protective clothing.

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	Viscous
Odour	Solvent-like odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available
Flammability	Highly flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	< 23 °C
Evaporation rate	No data available
Vapour pressure	< 1100 hPa ; 50 °C
Relative vapour density	> 1
Solubility	water ; insoluble organic solvents ; soluble
Relative density	1.1
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	No data available

Physical hazards

Flammable liquid

9.2 Other information:

Absolute density	1080 kg/m ³
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SECTION 10: Stability and reactivity

10.1 Reactivity:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. No data available.

10.2 Chemical stability:

Stable under normal conditions.

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10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: keep naked flames/sparks away.

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

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No (test)data on the mixture available

isobutyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		13400 mg/kg		Rat		
Dermal	LD50		> 5000 mg/kg		Rabbit		

isopropyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		6750 mg/kg		Rat		
Dermal	LD50		> 17490 mg/kg		Rabbit		
Inhalation	LC50		71.3 mg/l	4 h	Rat		
Inhalation	LC50		17100 ppm	4 h	Rat		

vinyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		3470 mg/kg bw		Rat	Male	Weight of evidence
Dermal	LD50		7440 mg/kg bw	24 h	Rabbit	Male	Experimental value
Inhalation (vapours)	LC50		15.81 mg/l	4 h	Rat	Male/female	Weight of evidence
Inhalation (vapours)	LC50		4490 ppm	4 h	Rat	Male/female	Weight of evidence

Classification is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Soudal Aquafix

No (test)data on the mixture available

vinyl acetate

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
Inhalation	Irritating; STOT SE cat.3					Annex VI

Classification is based on the relevant ingredients

Conclusion

Causes serious eye irritation.

Respiratory or skin sensitisation

Soudal Aquafix

No (test)data on the mixture available

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vinyl acetate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	OECD 429			Mouse	Female	Experimental value

Classification is based on the relevant ingredients

Conclusion

Not classified as sensitizing for inhalation
Not classified as sensitizing for skin

Specific target organ toxicity

Soudal Aquafix

No (test) data on the mixture available

vinyl acetate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral (drinking water)	NOAEL	Equivalent to OECD 408	281 mg/kg bw/day		No effect	14 weeks (daily)	Mouse	Female	Experimental value
Oral (drinking water)	NOAEL	Equivalent to OECD 408	285 mg/kg bw/day		No effect	14 weeks (daily)	Mouse	Male	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	704 mg/m ³ air		No adverse systemic effects	104 weeks (6h/day, 5 days/week)	Rat	Male/female	Experimental value

Classification is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

Soudal Aquafix

No (test) data on the mixture available

vinyl acetate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (<i>S.typhimurium</i>)	No effect	Experimental value
Positive without metabolic activation	Equivalent to OECD 473	Human lymphocytes	Chromosome aberrations	Experimental value

Mutagenicity (in vivo)

Soudal Aquafix

No (test) data on the mixture available

vinyl acetate

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative			Mouse	Male	Testes	Experimental value

Carcinogenicity

Soudal Aquafix

No (test) data on the mixture available

vinyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination	Organ	Effect
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	176 mg/m ³	104 weeks (6h/day, 5 days/week)	Mouse	Male/female	Experimental value		No effect
Oral (drinking water)	BMDL10	OECD 453	477 mg/kg bw/day	104 week(s)	Mouse	Male/female	Experimental value		Carcinogenicity

Reproductive toxicity

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No (test) data on the mixture available

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vinyl acetate

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	NOAEC	OECD 414	205 mg/kg/d	10 days (6h/day)	Rat		No effect	Foetus	Experimental value
Maternal toxicity	NOAEC	OECD 414	205 mg/kg/d	10 days (6h/day)	Rat		No effect	General	Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 416	100 mg/kg/d		Rat	Male/female	No effect		Calculated value

Classification is based on the relevant ingredients

Conclusion CMR

Suspected of causing cancer.

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data on the mixture available

Classification is based on the relevant ingredients

Conclusion

Repeated exposure may cause skin dryness or cracking.

Chronic effects from short and long-term exposure

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No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

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No (test)data on the mixture available

isobutyl acetate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		100 mg/l	96 h	Lepomis macrochirus			
Acute toxicity invertebrates	EC50		146 - 192 mg/l	48 h	Daphnia magna			
Toxicity algae and other aquatic plants	EC50		320 mg/l		Scenedesmus quadricauda			Nocivity test

isopropyl acetate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		265 mg/l	48 h	Leuciscus idus	Static system		
Acute toxicity invertebrates	EC50	OECD 202	4150 mg/l	24 h	Daphnia magna			
Toxicity algae and other aquatic plants	EC0		165 mg/l	168 h	Scenedesmus quadricauda			

vinyl acetate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		14 - 44 mg/l	96 h	Pimephales promelas			
Acute toxicity invertebrates	EC50	OECD 202	12.6 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	ErC50	OECD 201	12.7 mg/l	72 h	Pseudokirchneriella subcapitata		Fresh water	Experimental value

Conclusion

Not classified for acute aquatic toxicity

12.2 Persistence and degradability:

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isobutyl acetate

Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	98 %	21 day(s)	Experimental value

vinyl acetate

Biodegradation water

Method	Value	Duration	Value determination
OECD 301C: Modified MITI Test (I)	82 - 98 %	14 day(s)	Experimental value

Conclusion

Contains readily biodegradable component(s)

12.3 Bioaccumulative potential:

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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

isobutyl acetate

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		4 - 9.7		Pisces	

Log Kow

Method	Remark	Value	Temperature	Value determination
		1.59 - 1.78		

isopropyl acetate

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		1.8		Pisces	

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.98 - 1.3		

vinyl acetate

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		3.16		Pisces	QSAR

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		2.09 - 2.34			

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.73		Experimental value

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

12.4 Mobility in soil:

No (test) data on mobility of the components available

12.5 Results of PBT and vPvB assessment:

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

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Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

isobutyl acetate

Ground water

Ground water pollutant

Soudal Aquafix

vinyl acetate

Ground water

Ground water pollutant

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 2000/0532/EC).

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other dangerous substances). Depending on branch of industry and production process, also other waste codes may be applicable. 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. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

UN number	1133
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14.2 UN proper shipping name:

Proper shipping name	Adhesives
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14.3 Transport hazard class(es):

Hazard identification number	33
Class	3
Classification code	F1

14.4 Packing group:

Packing group	III
Labels	3

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	640H
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADR

Rail (RID)

14.1 UN number:

UN number	1133
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14.2 UN proper shipping name:

Proper shipping name	Adhesives
----------------------	-----------

14.3 Transport hazard class(es):

Hazard identification number	33
Class	3
Classification code	F1

14.4 Packing group:

Packing group	III
Labels	3

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	640H
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Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of RID

Inland waterways (ADN)

14.1 UN number:	UN number	1133
14.2 UN proper shipping name:	Proper shipping name	Adhesives
14.3 Transport hazard class(es):	Class	3
	Classification code	F1
14.4 Packing group:	Packing group	III
	Labels	3
14.5 Environmental hazards:	Environmentally hazardous substance mark	no
14.6 Special precautions for user:	Special provisions	640H
	Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
	Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADN

Sea (IMDG/IMSBC)

14.1 UN number:	UN number	1133
14.2 UN proper shipping name:	Proper shipping name	Adhesives
14.3 Transport hazard class(es):	Class	3
14.4 Packing group:	Packing group	III
	Labels	3
14.5 Environmental hazards:	Marine pollutant	-
	Environmentally hazardous substance mark	no
14.6 Special precautions for user:	Special provisions	223
	Special provisions	955
	Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
	Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.3.2.3 of IMDG
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Annex II of MARPOL 73/78	Not applicable, based on available data

Air (ICAO-TI/IATA-DGR)

14.1 UN number:	UN number	1133
14.2 UN proper shipping name:	Proper shipping name	Adhesives
14.3 Transport hazard class(es):	Class	3
14.4 Packing group:	Packing group	III
	Labels	3
14.5 Environmental hazards:	Environmentally hazardous substance mark	no
14.6 Special precautions for user:	Special provisions	A3
	Passenger and cargo transport: limited quantities: maximum net quantity per packaging	10 L

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Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 3.3.3.1 of ICAO
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SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	remarks
55.47 %	

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of 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
isobutyl acetate isopropyl acetate vinyl acetate	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects. 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304. 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
isobutyl acetate isopropyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation 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.

Reference legislation

See column 1: 3.

See column 1: 40.

National legislation The Netherlands

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Waterbezwaarlijkheid	11
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National legislation Germany

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WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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isobutyl acetate

TA-Luft	TA-Luft Klasse 5.2.5
Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	iso-Butylacetat; 100 ppm
MAK 8-Stunden-Mittelwert mg/m ³	iso-Butylacetat; 480 mg/m ³

isopropyl acetate

TA-Luft	TA-Luft Klasse 5.2.5
Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	Propylacetate; 100 ppm
MAK 8-Stunden-Mittelwert mg/m ³	Propylacetate; 420 mg/m ³

vinyl acetate

TRGS905 - Krebserzeugend	3
MAK - Krebserzeugend Kategorie	3A
TA-Luft	TA-Luft Klasse 5.2.5/1

National legislation France

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No data available

National legislation Belgium

Soudal Aquafix
No data available

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

Information based on classification according to Regulation (EU) No 487/2013 - 4th adaptation of Regulation (EC) No 1272/2008

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

R20 Harmful by inhalation
R36 Irritating to eyes
R37 Irritating to respiratory system
R40 Limited evidence of a carcinogenic effect
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness

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

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

(*) = 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, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and

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reproduction are limited. Consult the mentioned agreement/conditions for details.

SODAL

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