

**Soudal Aquafix****1. Identification of the substance/preparation and of the company/undertaking****1.1 Identification of the substance or preparation:**

Product name : Soudal Aquafix

**1.2 Use of the substance/preparation:**

Adhesive

**1.3 Company/undertaking identification:**

SODAL N.V.  
Everdongenlaan 18-20  
B-2300 Turnhout  
Tel: +32 14 42 42 31  
Fax: +32 14 44 39 71  
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**1.4 Emergency telephone:**

+32 14 58 45 45 (24/24 h)  
Information centre on dangerous goods (BIG)  
Technische Schoolstraat 43 A, B-2440 Geel, Belgium

**2. Hazards identification**

- Highly flammable
- Repeated exposure may cause skin dryness or cracking

**3. Composition/information on ingredients**

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. (%)	Hazards (R-phrases)	Hazard symbol
isopropyl acetate	108-21-4 203-561-1	1 - <10	11-36-66-67 (1)	F;Xi
isobutyl acetate	110-19-0 203-745-1	1 - <25	11-66 (1)	F

(1) For R-phrases in full: see heading 16  
(2) Substance with a Community workplace exposure limit  
(3) PBT-substance

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## 4. First aid measures

- 4.1 After inhalation:**
- Remove the victim into fresh air
  - Seek medical advice
- 4.2 Skin contact:**
- Rinse immediately with plenty of water
  - If irritation persists: seek medical advice
- 4.3 Eye contact:**
- Rinse immediately with plenty of water
  - Seek medical advice
- 4.4 After ingestion:**
- Never give water to an unconscious person
  - Do not induce vomiting
  - Seek medical advice

## 5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Alcohol-resistant foam
  - BC powder
  - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- Solid water jet ineffective as extinguishing medium
- 5.3 Special exposure hazards:**
- Gas/vapour spreads at floor level: ignition hazard
  - Gas/vapour flammable with air within explosion limits
  - Upon combustion CO and CO<sub>2</sub> are formed
- 5.4 Instructions:**
- Cool closed containers with water if they are exposed to the fire
  - Do not move the load if exposed to heat
- 5.5 Special protective equipment for fire-fighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
  - Protective clothing for exposure to chemicals

## 6. Accidental release measures

- 6.1 Personal precautions:**
- See heading 8.2/13
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
- 6.3 Methods for cleaning up:**
- Cover spill with inert material e.g.: sand/earth
  - Shovel absorbed substance in closing drums
  - 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

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## 7. Handling and storage

### 7.1 Handling:

- Avoid prolonged and repeated contact with skin
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately
- In case of insufficient ventilation:  
Use spark-/explosionproof appliances and lighting system

### 7.2 Storage:

- Keep container tightly closed
- Ventilation at floor level
  
- Keep away from: heat sources, ignition sources

Storage temperature	: 20	°C
Quantity limit	: N.D.	kg
Storage life	: 365	days
Materials for packaging	:	
- suitable	: plastic	

### 7.3 Specific use(s):

- See information supplied by the manufacturer for the identified use(s)

## 8. Exposure controls/Personal protection

### 8.1 Exposure limit values:

#### 8.1.1 Occupational exposure:

##### ISOPROPYL ACETATE:

TLV-TWA	:	mg/m <sup>3</sup>	100	ppm
TLV-STEL	:	mg/m <sup>3</sup>	200	ppm
TLV-Ceiling	:	mg/m <sup>3</sup>		ppm
WEL-LTEL	:	mg/m <sup>3</sup>	-	ppm
WEL-STEL	:	mg/m <sup>3</sup>	200	ppm
TRGS 900	:	mg/m <sup>3</sup>		ppm
MAK	:	mg/m <sup>3</sup>	100	ppm
VME-8 h	:	mg/m <sup>3</sup>	250	ppm
VLE-15 min.	:	mg/m <sup>3</sup>	300	ppm
GWBB-8 h	:	mg/m <sup>3</sup>	100	ppm
GWK-15 min.	:	mg/m <sup>3</sup>	200	ppm

##### ISOBUTYL ACETATE:

TLV-TWA	:	mg/m <sup>3</sup>	150	ppm
TLV-STEL	:	mg/m <sup>3</sup>	-	ppm
TLV-Ceiling	:	mg/m <sup>3</sup>		ppm
WEL-LTEL	:	mg/m <sup>3</sup>	150	ppm
WEL-STEL	:	mg/m <sup>3</sup>	187	ppm
MAK	:	mg/m <sup>3</sup>	100	ppm
MAC-TGG 8 h	:	mg/m <sup>3</sup>		
MAC-TGG 15 min.	:	mg/m <sup>3</sup>		
MAC-Ceiling	:	mg/m <sup>3</sup>		
VME-8 h	:	mg/m <sup>3</sup>	150	ppm
VLE-15 min.	:	mg/m <sup>3</sup>	200	ppm
GWBB-8 h	:	mg/m <sup>3</sup>	150	ppm
GWK-15 min.	:	mg/m <sup>3</sup>	-	ppm
Momentary value	:	mg/m <sup>3</sup>		ppm

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## 8.2 Exposure controls:

### 8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

#### Personal protective equipment:

##### a) Respiratory protection:

- Gas mask with filter type A at conc. in air > exposure limit

##### b) Hand protection:

- Gloves

##### c) Eye protection:

- Protective goggles

##### d) Skin protection:

- Head/neck protection
- Protective clothing

### 8.2.2 Environmental exposure controls: see heading 6.2, 6.3 and 13

## 9. Physical and chemical properties

### 9.1 General information:

Appearance (at 20°C)	: Viscous
Odour	: Solvent
Colour	: Variable in colour

### 9.2 Important health, safety and environmental information:

pH value (at 20°C)	: N.D.	
Boiling point/boiling range	: N.D.	°C
Flashpoint/flammability	: < 23	°C
Explosion limits (explosive properties)	: N.D.	Vol%
Oxidising properties	: N.D.	
Vapour pressure (at 20°C)	: N.D.	hPa
Vapour pressure (at 50°C)	: < 1100	hPa
Relative density (at 20°C)	: 1.1	
Water solubility	: Insoluble	
Soluble in	: Organic solvents	
Relative vapour density	: > 1	
Viscosity (at °C)	: N.D.	Pa.s
Partition coefficient n-octanol/water	: N.D.	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

### 9.3 Other information:

Melting point/melting range	: N.D.	°C
Auto-ignition point	: N.D.	°C
Saturation concentration	: N.D.	g/m <sup>3</sup>
Specific conductivity	: N.D.	pS/m

## 10. Stability and reactivity

### 10.1 Conditions to avoid:

- Stable under normal conditions

### 10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources

### 10.3 Hazardous decomposition products:

- Upon combustion CO and CO<sub>2</sub> are formed

## 11. Toxicological information

### 11.1 Acute toxicity:

ISOPROPYL ACETATE:

LD50 oral rat	: > 6160	mg/kg
LD50 dermal rabbit	: > 17490	mg/kg
LC50 inhalation rat	: 71.3	mg/l/4 h
LC50 inhalation rat	: 17100	ppm/4 h

ISOBUTYL ACETATE:

LD50 oral rat	: 13400	mg/kg
LD50 dermal rabbit	: > 5000	mg/kg

### 11.2 Chronic toxicity:

ISOPROPYL ACETATE:

Teratogenicity (MAK) : Group C

ISOBUTYL ACETATE:

Teratogenicity (MAK) : Group C

11.3 Routes of exposure: ingestion, inhalation, eye and skin

### 11.4 Acute effects/symptoms:

**AFTER INHALATION:**

EXPOSURE TO HIGH CONCENTRATIONS:

- Irritation of the respiratory tract
- Irritation of the nasal mucous membranes
- CNS depression
- Headache
- Nausea
- Dizziness
- Narcosis
- Disturbances of consciousness

**AFTER INGESTION:**

- Nausea
- Vomiting

AFTER ABSORPTION OF HIGH QUANTITIES:

- CNS depression
- Symptoms similar to those listed under inhalation

**AFTER SKIN CONTACT:**

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

**AFTER EYE CONTACT:**

- Slight irritation

### 11.5 Chronic effects:

- Contains substance of group C (MAK-Schwangerschaftsgruppe)
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)

## 12. Ecological information

### 12.1 Ecotoxicity:

#### ISOPROPYL ACETATE:

- LC50 (48 h) : 265 mg/l (LEUCISCUS IDUS)
- EC50 (24 h) : 4150 mg/l (DAPHNIA MAGNA)

#### ISOBUTYL ACETATE:

- LC50 (96 h) : 100 mg/l (LEPOMIS MACROCHIRUS)
- EC50 (48 h) : 146/192 mg/l (DAPHNIA MAGNA)
- EC50 : 320 mg/l (SCENEDESMUS QUADRICAUDA)

Effect on waste water purification : No data available

### 12.2 Mobility:

- Volatile organic compounds (VOC): 48%
- Insoluble in water

For other physicochemical properties see heading 9

### 12.3 Persistence and degradability:

- Biodegradation BOD<sub>5</sub> : N.D. % ThOD
- Water : No data available
- Soil : T ½ N.D. days

### 12.4 Bioaccumulative potential:

- log P<sub>ow</sub> : N.D.
- BCF : N.D.

### 12.5 Results of PBT assessment:

- Not applicable, based on available data

### 12.6 Other adverse effects:

- WGK : 1 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- Effect on the ozone layer : Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect : No data available

## 13. Disposal considerations

### 13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 09\* (waste adhesives and sealants containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

### 13.2 Disposal methods:

- Incinerate under surveillance
- Do not discharge into drains or the environment

### 13.3 Packaging:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10\* (packaging containing residues of or contaminated by dangerous substances)

## 14. Transport information

### 14.1 Classification of the substance in compliance with UN Recommendations

UN number : 1133  
 CLASS : 3  
 SUB RISKS : -  
 PACKING : III

### 14.2 ADR (transport by road)

CLASS : 3  
 PACKING : III  
 CLASSIFICATION CODE : F1  
 DANGER LABEL TANKS : 3  
 DANGER LABEL PACKAGES : 3  
 PROPER SHIPPING NAME :  
 Adhesives

### 14.3 RID (transport by rail)

CLASS : 3  
 PACKING : III  
 CLASSIFICATION CODE : F1  
 DANGER LABEL TANKS : 3  
 DANGER LABEL PACKAGES : 3  
 PROPER SHIPPING NAME :  
 Adhesives

### 14.4 ADNR (inland navigation)

CLASS : 3  
 PACKING : III  
 CLASSIFICATION CODE : F1  
 DANGER LABEL TANKS : 3  
 DANGER LABEL PACKAGES : 3

### 14.5 IMDG (maritime transport)

CLASS : 3  
 SUB RISKS : -  
 PACKING : III  
 MFAQ : -  
 EMS : F-E, S-D  
 MARINE POLLUTANT : -

### 14.6 ICAO (air freight)

CLASS : 3  
 SUB RISKS : -  
 PACKING : III  
 PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 309/Y309  
 PACKING INSTRUCTIONS CARGO AIRCRAFT : 310

### 14.7 Special precautions

viscous liquid with a flashpoint below 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADR, RID and ADNR, in 2.3.2.3 of IMDG and in 3.3.3.1 of ICAO

### 14.8 Limited quantities (LQ)

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:

each package shall display a diamond-shaped figure with the following inscription:

- 'UN 1133'

or, in the case of different goods with different identification numbers within a single package:

- the letters 'LQ'

## 15. Regulatory information

### 15.1 EU Legislation:

Labelling in accordance with directives 67/548/EEC and 1999/45/EC



Highly flammable

R66	:	Repeated exposure may cause skin dryness or cracking
S(02)	:	(Keep out of reach of children)
S(46)	:	(If swallowed, seek medical advice immediately and show this container or label)

### 15.2 National provisions:

**the Netherlands:**

Waterbezwaarlijkheid: N.D.

**Germany:**

WGK : 1 (classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)



## 16. Other information

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**N.A.** = NOT APPLICABLE  
**N.D.** = NOT DETERMINED  
**(\*)** = INTERNAL CLASSIFICATION (NFPA)

**PBT-substances** = persistent, bioaccumulative and toxic substances

### Exposure limits:

**TLV** : Threshold Limit Value - ACGIH USA  
**WEL** : Workplace Exposure Limits - United Kingdom  
**TRGS 900** : Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany  
**MAK** : Maximale Arbeitsplatzkonzentrationen - Germany  
**MAC** : Maximale aanvaarde concentratie - The Netherlands  
**VME** : Valeurs limites de Moyenne d'Exposition - France  
**VLE** : Valeurs Limites d'Exposition à court terme - France  
**GWBB** : Grenswaarde beroepsmatige blootstelling - Belgium  
**GWK** : Grenswaarde kortstondige blootstelling - Belgium  
**EC** : Indicative occupational exposure limit values - Directive 2000/39/EC

**I** : Inhalable fraction = **T** : Total dust = **E** : Einatembarer Aerosolanteil  
**R** : Respirable fraction = **A** : Alveolengängiger Aerosolanteil/Alveolar dust  
**C** : Ceiling limit

<b>a:</b> aerosol		<b>r:</b> rook/Rauch	(fume)
<b>d:</b> damp	(vapour)	<b>st:</b> stof/Staub	(dust)
<b>du:</b> dust		<b>ve:</b> vezel	(fibre)
<b>fa:</b> Faser	(fibre)	<b>va:</b> vapour	
<b>fi:</b> fibre		<b>om:</b> oil mist	
<b>fu:</b> fume		<b>on:</b> olienevel/Ölnebel	(oil mist)
<b>p:</b> poussière	(dust)	<b>part:</b> particles	

### Chronic toxicity:

**K:** List of the carcinogenic substances and processes - The Netherlands

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

R11 : Highly flammable  
R36 : Irritating to eyes  
R66 : Repeated exposure may cause skin dryness or cracking  
R67 : Vapours may cause drowsiness and dizziness