SAFETY DATA SHEET

Based on Regulation (EC) no. 1907/2006 (REACH) Article 31 Annex II

All Weather Sealant

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:
Product name : All Weather Sealant

1.2 Use of the substance/preparation:
Adhesive

1.3 Company/undertaking identification:
SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
Tel: +32 14 42 42 31
Fax: +32 14 44 39 71
e-mail address: msds@soudal.com

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

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 CO2 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

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/m³**	100	**ppm**
TLV-STEL	:		**mg/m³**	200	**ppm**
TLV-Ceiling	:		**mg/m³**		**ppm**
WEL-LTEL	:	-	**mg/m³**	-	**ppm**
WEL-STEL	:	849	**mg/m³**	200	**ppm**
TRGS 900	:		**mg/m³**		**ppm**
MAK	:	420	**mg/m³**	100	**ppm**
VME-8 h	:	950	**mg/m³**	250	**ppm**
VLE-15 min.	:	1140	**mg/m³**	300	**ppm**
GWBB-8 h	:	424	**mg/m³**	100	**ppm**
GWK-15 min.	:	849	**mg/m³**	200	**ppm**

ISOBUTYL ACETATE:

TLV-TWA	:		**mg/m³**	150	**ppm**
TLV-STEL	:		**mg/m³**	-	**ppm**
TLV-Ceiling	:		**mg/m³**		**ppm**
WEL-LTEL	:	724	**mg/m³**	150	**ppm**
WEL-STEL	:	903	**mg/m³**	187	**ppm**
MAK	:	480	**mg/m³**	100	**ppm**
MAC-TGG 8 h	:	480	**mg/m³**		
MAC-TGG 15 min.	:		**mg/m³**		
MAC-Ceiling	:		**mg/m³**		
VME-8 h	:	710	**mg/m³**	150	**ppm**
VLE-15 min.	:	940	**mg/m³**	200	**ppm**
GWBB-8 h	:	723	**mg/m³**	150	**ppm**
GWK-15 min.	:	-	**mg/m³**	-	**ppm**
Momentary value	:		**mg/m³**		**ppm**

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^3**
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 CO2 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_5** : N.D. **% ThOD**
- **Water** : No data available
- **Soil** : **T ½** N.D. **days**

12.4 Bioaccumulative potential:

- **log P_{ow}** : 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
MFAG	:	-
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

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