

Soudaflex 40 FC**1. Identification of the substance/preparation and of the company/undertaking****1.1 Identification of the substance or preparation:**

- Not applicable

1.2 Use of the substance or the preparation:

Sealant

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

1.4 Telephone number for emergency:

+32 14 58 45 45
Brandweerinformatiecentrum voor gevaarlijke stoffen (B.I.G.)
Technische Schoolstraat 43 A, B-2440 Geel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
xylene, mixture of isomers	1330-20-7 215-535-7	1 - <10	Xn	10-20/21-38 (1)
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9 223-861-6	0.1 - <1.0	T;N	23-36/37/38-42/43-51/53 (1)
methylenediphenyl diisocyanate	26447-40-5 247-714-0	0.1 - <1.0	Xn	20-36/37/38-42/43 (1)
low boiling point naphtha, unspecified (conc. benzene < 0.1%)	64742-95-6 265-199-0	0.1 - <1.0	Xn;N	10-37-51/53-65-66-67 (1) (Labelling in compliance with CONCAWE)

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

3. Hazards identification

- Flammable
- May cause sensitisation by inhalation

4. First aid measures

- 4.1 Eye contact:**
- Rinse immediately with plenty of water
 - Seek medical advice
- 4.2 Skin contact:**
- Rinse immediately with plenty of water
 - If irritation persists: seek medical advice
- 4.3 After inhalation:**
- Remove the victim into fresh air
 - 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:**
- Polyvalent foam
 - ABC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- None
- 5.3 Special exposure hazards:**
- Gas/vapour spreads at floor level: ignition hazard
 - Vapour-air mixture is flammable/explosive within the explosion limits
 - On burning: release of toxic and corrosive gases/vapours: sulphur oxides, hydrogen chloride, carbon monoxide and carbon dioxide
- 5.4 Instructions:**
- Cool closed containers with water if they are exposed to the fire
 - Dilute toxic gases with water spray
 - Take account of environmentally hazardous firefighting water
- 5.5 Special protective equipment for firefighters:**
- Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

- 6.1 Personal protection/precautions:**
See headings 8.2/8.3/13
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
- 6.3 Methods of cleaning up:**
- Take up liquid spill in non-combustible absorbent material e.g.: sand, earth, vermiculite
 - Shovel absorbed substance in closing drums
 - Carefully collect the spill/leftovers
 - Take collected spill to manufacturer/competent authority
 - Clean contaminated surfaces with an excess of water
 - Wash clothing and equipment after handling

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7. Handling and storage

7.1 Handling:

- Observe very strict hygiene - avoid contact
- Use spark-/explosionproof appliances and lighting system
- Take precautions against electrostatic charges
- Do not discharge the waste into the drain

7.2 Storage:

- Keep container tightly closed
- Keep out of direct sunlight
- Store in a dry area

- Keep away from: heat sources, ignition sources

Storage temperature : Room temperature
Quantity limit : N.D. kg
Storage life : N.D. days
Materials for packaging :
- suitable : aluminium

7.3 Specific uses:

- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

XYLENE, mixture of isomers:

TLV-TWA	:	mg/m ³	100	ppm
TLV-STEL	:	mg/m ³	150	ppm
TLV-Ceiling	:	mg/m ³		ppm
OES-LTEL	:	mg/m ³	50	ppm
OES-STEL	:	mg/m ³	100	ppm
MAK	:	mg/m ³	100	ppm
TRK	:	mg/m ³		ppm
MAC-TGG 8 h	:	mg/m ³		
MAC-TGG 15 min.	:	mg/m ³		
MAC-Ceiling	:	mg/m ³		
VME-8 h	:	mg/m ³	100	ppm
VLE-15 min.	:	mg/m ³	150	ppm
GWBB-8 h	:	mg/m ³	50	ppm
GWK-15 min.	:	mg/m ³	100	ppm
Momentary value	:	mg/m ³		ppm
EC	:	mg/m ³	50	ppm
EC-STEL	:	mg/m ³	100	ppm

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3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE :

TLV-TWA	:		mg/m ³	0.005	ppm
TLV-STEL	:		mg/m ³		ppm
TLV-Ceiling	:		mg/m ³		ppm
MEL-LTEL	:	0.02 (-NCO)	mg/m ³		ppm
MEL-STEL	:	0.07 (-NCO)	mg/m ³		ppm
MAK	:	0.046	mg/m ³	0.005	ppm
TRK	:		mg/m ³		ppm
MAC-TGG 8 h	:	0.05	mg/m ³		
MAC-TGG 15 min.	:	0.19	mg/m ³		
MAC-Ceiling	:		mg/m ³		
VME-8 h	:	0.09	mg/m ³	0.01	ppm
VLE-15 min.	:	0.18(5 min)	mg/m ³	0.02(5 min)	ppm
GWBB-8 h	:	0.046	mg/m ³		ppm
GWK-15 min.	:		mg/m ³		ppm
Momentary value	:		mg/m ³		ppm
EC	:		mg/m ³		ppm
EC-STEL	:		mg/m ³		ppm

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Use only in well ventilated area

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:

- In case of insufficient ventilation: gas mask with filter type A

8.3.2 hand protection:

- Gloves

8.3.3 eye protection:

- Safety glasses

8.3.4 skin protection:

- Protective clothing

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 : N.D.
Boiling point/boiling range : N.D. °C
Flashpoint : 25 °C
Explosion limits : N.D. vol%
Vapour pressure (at 20°C) : N.D. hPa
Vapour pressure (at 50°C) : N.D. hPa
Relative density (at 20°C) : 1.2
Water solubility : Insoluble
Soluble in : No data available
Relative vapour density : > 1
Viscosity : N.D. Pa.s
Flow time (ISO 2431) : > 60 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/m³

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources

10.3 Hazardous decomposition products:

- On burning: release of toxic and corrosive gases/vapours: sulphur oxides, hydrogen chloride, carbon monoxide and carbon dioxide

11. Toxicological information

11.1 Acute toxicity:

XYLENE, mixture of isomers:

LD50 oral rat	: > 4300	mg/kg
LD50 dermal rabbit	: > 2000	mg/kg
LD50 dermal rabbit	: > 1700	mg/kg
LC50 inhalation rat	: 22	mg/l/4 h
LC50 inhalation rat	: 5000	ppm/4 h

3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE:

LD50 oral rat	: > 2500	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LC50 inhalation rat	: 0.123	mg/l/4 h
LC50 inhalation rat	: N.D.	ppm/4 h

11.2 Chronic toxicity:

XYLENE, mixture of isomers:

EC carc. cat. : not listed
EC muta. cat. : not listed
EC repr. cat. : not listed

Carcinogenicity (TLV) : A4
Carcinogenicity (MAC) : not listed
Carcinogenicity (VME) : not listed
Carcinogenicity (GWBB) : not listed

Carcinogenicity (MAK) : not listed
Mutagenicity (MAK) : not listed
Teratogenicity (MAK) : D

IARC classification : 3

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

11.4 Acute effects/symptoms:

AFTER INHALATION:

ON CONTINUOUS EXPOSURE/CONTACT:

- Headache
- Nausea
- Dizziness
- Narcosis

AFTER INGESTION:

AFTER ABSORPTION OF HIGH QUANTITIES:

- Symptoms similar to those listed under inhalation

11.5 Chronic effects:

- May cause sensitization by inhalation
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)
- Not classified as toxic to reproduction (EC)

ON CONTINUOUS EXPOSURE/CONTACT:

- Respiratory difficulties

12. Ecological information

12.1 Ecotoxicity:

XYLENE, mixture of isomers:

- LC50 (96 h) : 3.77 mg/l (SALMO GAIARDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 7.4 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 10 mg/l (SKELETONEMA COSTATUM)

12.2 Mobility:

- Volatile organic compounds (VOC): 6%
- Insoluble in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- biodegradation BOD₅ : 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 Other adverse effects:

- WGK : 2 (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
- Effect on waste water purification : 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:

- Recycle/reuse

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 : 1993
 CLASS : NOT SUBJECT
 SUB RISKS : -
 PACKING : -
 PROPER SHIPPING NAME :
 UN 1993, Flammable liquid, n.o.s. (xylenes)

14.2 ADR (transport by road)

CLASS : NOT SUBJECT
 PACKING : -
 CLASSIFICATION CODE :
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : -

14.3 RID (transport by rail)

CLASS : NOT SUBJECT
 PACKING : -
 CLASSIFICATION CODE :
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : -

14.4 ADNR (transport by inland waterways)

CLASS : NOT SUBJECT
 PACKING : -
 CLASSIFICATION CODE :
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : -

14.5 IMDG (maritime transport)

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

14.6 ICAO (air transport)

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

14.7 Special precautions in connection with transport

Viscous liquid with a flash point ranging from 23°C to 61°C, which meets the conditions indicated in 2.3.3.1.5 of ADR, RID and ADNR and in 2.3.2.5 of IMDG not subject to ADR, RID and ADNR and neither to IMDG Code chapters 4.1, 5.2, 6.1

15. Regulatory information

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



Harmful

Contains	:	methylenediphenyl diisocyanate
R10	:	Flammable
R42	:	May cause sensitisation by inhalation
S(02)	:	(Keep out of reach of children)
S23	:	Do not breathe vapour
S45	:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S(63)	:	(In case of accident by inhalation: remove casualty to fresh air and keep at rest)

Contains isocyanates. See information supplied by the manufacturer.

Contains 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate. May produce an allergic reaction.

16. Other information

The information provided on this MSDS 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)

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2004
OES : Occupational Exposure Standards - United Kingdom 2003
MEL : Maximum Exposure Limits - United Kingdom 2003
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2002
TRK : Technische Richtkonzentrationen - Germany 2002
MAC : Maximale aanvaarde concentratie - the Netherlands 2004
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 2002
GWK : Grenswaarde kortstondige blootstelling - Belgium 2002
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:	fibres	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 2005

Full text of any R-phrases referred to under heading 2:

R10 : Flammable
R11 : Highly flammable
R20 : Harmful by inhalation
R20/21 : Harmful by inhalation and in contact with skin
R23 : Toxic by inhalation
R36/37/38 : Irritating to eyes, respiratory system and skin
R37 : Irritating to respiratory system
R38 : Irritating to skin
R42/43 : May cause sensitization by inhalation and skin contact
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65 : Harmful: may cause lung damage if swallowed
R66 : Repeated exposure may cause skin dryness or cracking
R67 : Vapours may cause drowsiness and dizziness