

SAFETY DATA SHEET

Based on Directive 2001/58/EC of the Commission of the European Communities

FIRE SILICONE B1

1. Identification of the substance/preparation and the company

- 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 No.	Conc. in %	Hazard symbol	Risks (R-phrases)
dibutyltin dilaurate	77-58-7 201-039-8	0.25 - 2.5	T;N	21-25-36/38-50/53 (1)
N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide]	16230-35-6 240-354-5	1 - 5	Xi	14-36/38 (1)

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

3. Hazards identification

- Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment

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

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	: Technische Schoolstraat 43 A, B-2440 Geel		
	: ☎ +32 14 58 45 47	http://www.big.be	E-mail: info@big.be
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Reference number	: BIG\33334GB	Revision number	: 004
Reason for revision	: See 2 - 11.1 - 12.1		

FIRE SILICONE B1

5. Fire-fighting measures

5.1 Suitable extinguishing media:

- Water spray
- Alcohol-resistant foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:

- None

5.3 Special exposure hazards:

- On burning: release of carbon monoxide, carbon dioxide and formation of small quantities of nitrous vapours

5.4 Instructions:

- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:

- Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions:

See heading 8.1/8.3/10.3

6.2 Environmental precautions:

- Use appropriate containment to avoid environmental contamination

6.3 Methods of cleaning up:

- Cover spill with inert material, e.g.: sand/kieselguhr
- Take collected spill to competent authority
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

- Observe normal hygiene standards
- Do not discharge the waste into the drain

7.2 Storage:

- Keep container tightly closed
- Store in a dry area

Storage temperature	:	roomtemperature
Quantity limits	:	N.D. kg
Storage life	:	365 days
Materials for packaging	:	
- suitable	:	plastics

7.3 Specific uses:

- See information supplied by the manufacturer

FIRE SILICONE B1

8. Exposure controls/Personal protection

8.1 Exposure limit values:

DIBUTYLTIN DILAURATE:

TLV-TWA	: 0.1(Sn)	mg/m ³	-	ppm
TLV-STEL	: 0.2(Sn)	mg/m ³	-	ppm
TLV-Ceiling	: -	mg/m ³	-	ppm
OES-LTEL	: 0.1(Sn)	mg/m ³	-(Sn)	ppm
OES-STEL	: 0.2(Sn)	mg/m ³	-(Sn)	ppm
MAK	: 0.1(Sn) E	mg/m ³	-	ppm
TRK	: -	mg/m ³	-	ppm
MAC-TGG 8 h	: 0.1(Sn)	mg/m ³		
MAC-TGG 15 min.	: 0.2(Sn)	mg/m ³		
MAC-Ceiling	: -	mg/m ³		
VME-8 h	: 0.1(Sn)	mg/m ³	-(Sn)	ppm
VLE-15 min.	: 0.2(Sn)	mg/m ³	-(Sn)	ppm
GWBB-8 h	: 0.1(Sn)	mg/m ³	-(Sn)	ppm
GWK-15 min.	: 0.2(Sn)	mg/m ³	-(Sn)	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: respiratory protection with filtertype A

8.3.2 hand protection:

- Chemically resistant gloves

8.3.3 eye protection:

- Safety glasses

8.3.4 skin protection:

- Suitable protective clothing

FIRE SILICONE B1

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Paste
Odour	: Characteristic
Colour	: White

9.2 Important health, safety and environmental information:

pH value	: N.D.	
Boiling point/boiling range	: N.D.	°C
Flashpoint	: N.D.	°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)	: N.D.	
Water solubility	: Insoluble	
Soluble in	: organic solvents	
Relative vapour density	: N.D.	
Viscosity (at 20°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

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

10.2 Materials to avoid:

- None

10.3 Hazardous decomposition products:

- On burning: release of carbon monoxide, carbon dioxide and formation of small quantities of nitrous vapours

11. Toxicological information**11.1 Acute toxicity:**

DIBUTYLTIN DILAURATE:

LD50 oral rat	: 175	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: > 1000	mg/kg
LC50 inhalation rat	: N.D.	mg/l/4 h
LC50 inhalation rat	: N.D.	ppm/4 h

N,N'-(ETHOXYMETHYLSILYLENE) bis[N-METHYLBENZAMIDE]:

LD50 oral rat	: 2840	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LC50 inhalation rat	: N.D.	mg/l/4 h
LC50 inhalation rat	: N.D.	ppm/4 h

11.2 Chronic toxicity:

DIBUTYLTIN DILAURATE:

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)	: group D
IARC classification	: not listed

11.3 Routes of exposure: ingestion, inhalation, eye and skin**11.4 Acute effects/symptoms:**
- Practically non-toxic**11.5 Chronic effects:**
- None known

12. Ecological information

12.1 Ecotoxicity:

DIBUTYLTIN DILAURATE:

- LC50 (48 h) : 2 mg/l (PISCES)
- EC50 (24 h) : 0.66 mg/l (DAPHNIA MAGNA)

12.2 Mobility:

- Volatile organic compounds (VOC): 7 %
- Insoluble in water

For other physicochemical properties see section 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:

- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water

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	:	-
CLASS	:	NOT SUBJECT
SUB RISKS	:	
PACKING	:	
PROPER SHIPPING NAME	:	

14.2 ADR (transport by road)

CLASS	:	NOT SUBJECT
PACKING	:	
DANGER LABEL TANKS	:	
DANGER LABEL PACKAGES	:	

14.3 RID (transport by rail)

CLASS	:	NOT SUBJECT
PACKING	:	
DANGER LABEL TANKS	:	
DANGER LABEL PACKAGES	:	

14.4 ADNR (inland navigation)

CLASS	:	NOT SUBJECT
PACKING	:	
DANGER LABEL TANKS	:	
DANGER LABEL PACKAGES	:	

14.5 IMDG (maritime transport)

CLASS	:	NOT SUBJECT
SUB RISKS	:	
PACKING	:	
MFAG	:	
EMS	:	
MARINE POLLUTANT	:	

14.6 ICAO (air freight)

CLASS	:	NOT SUBJECT
SUB RISKS	:	
PACKING	:	
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:	
PACKING INSTRUCTIONS CARGO AIRCRAFT	:	

14.7 Special precautions in connection with transport

: Not restricted for any mode of international transport

15. Regulatory information

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

R52/53 : Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment

S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

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

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2002
OES : Occupational Exposure Standards - United Kingdom 2001
MEL : Maximum Exposure Limits - United Kingdom 2001
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
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	st:	stof/Staub	(dust)
du:	dust	ve:	vezel	(fibre)
fa:	Faser	va:	vapour	
fi:	fibre	om:	oil mist	
fu:	fume	on:	olienevel/Ölnebel	(oil mist)
p:	poussière	part:	particles	

Chronic toxicity:

K: List of the carcinogenic substances and processes - The Netherlands 2000

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

R14 : Reacts violently with water
R21 : Harmful in contact with skin
R25 : Toxic if swallowed
R36/38 : Irritating to eyes and skin
R50/53 : Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment