

# 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

Printing date : 11-2005  
Compiled by : Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG)  
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MSDS established : 10-10-2002 Revision date : 15-12-2004  
Reference number : BIG\33334GB Revision number : 004  
Reason for revision : See 2 - 11.1 - 12.1

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## 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

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## 8. Exposure controls/Personal protection

### 8.1 Exposure limit values:

DIBUTYLTIN DILAURATE:

TLV-TWA	: 0.1(Sn)	mg/m <sup>3</sup>	-	ppm
TLV-STEL	: 0.2(Sn)	mg/m <sup>3</sup>	-	ppm
TLV-Ceiling	: -	mg/m <sup>3</sup>	-	ppm
OES-LTEL	: 0.1(Sn)	mg/m <sup>3</sup>	-(Sn)	ppm
OES-STEL	: 0.2(Sn)	mg/m <sup>3</sup>	-(Sn)	ppm
MAK	: 0.1(Sn) E	mg/m <sup>3</sup>	-	ppm
TRK	: -	mg/m <sup>3</sup>	-	ppm
MAC-TGG 8 h	: 0.1(Sn)	mg/m <sup>3</sup>		
MAC-TGG 15 min.	: 0.2(Sn)	mg/m <sup>3</sup>		
MAC-Ceiling	: -	mg/m <sup>3</sup>		
VME-8 h	: 0.1(Sn)	mg/m <sup>3</sup>	-(Sn)	ppm
VLE-15 min.	: 0.2(Sn)	mg/m <sup>3</sup>	-(Sn)	ppm
GWBB-8 h	: 0.1(Sn)	mg/m <sup>3</sup>	-(Sn)	ppm
GWK-15 min.	: 0.2(Sn)	mg/m <sup>3</sup>	-(Sn)	ppm
Momentary value	: -	mg/m <sup>3</sup>	-	ppm
EC	: -	mg/m <sup>3</sup>	-	ppm
EC-STEL	: -	mg/m <sup>3</sup>	-	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

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## 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<sup>3</sup>

## 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
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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 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 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)

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## 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

<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 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