

# SAFETY DATA SHEET

Based on Directive 91/155/EEC et seq. 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:

CAS no. : N.A.  
EC index no. : N.A.  
EINECS no. : N.A.  
RTECS no. : N.A.  
NFPA code : N.D.  
Molecular weight : N.A.  
Formula : N.A.

#### 1.2 Company/undertaking identification:

SOUDAL N.V.  
Everdongenlaan 18-20  
B-2300 Turnhout  
Tel. : (+32) 14-42 42 31 - Fax. : (+32) 14-44 39 71

#### 1.3 Telephone number for emergency:

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

### 2. Composition/information on ingredients

Hazardous ingredients	CAS no.	Conc in %	Hazard class.	Risks (R-phrases)
dibutyltin dilaurate	000077-58-7	0.25 - 2.5	T;N	21-25-36/38-50/53

### 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 lots of water
- Consult a doctor

#### 4.2 Skin contact:

- Wash immediately with lots of water
- If irritation persists consult a doctor

#### 4.3 After inhalation:

- Remove the victim into fresh air
- Consult a doctor

#### 4.4 After ingestion:

- Never give water to an unconscious person
- Do not allow vomiting
- Consult a doctor

# FIRE SILICONE B1

## 5. Fire-fighting measures

### 5.1 Suitable extinguishing media:

- Water spray
- Alcohol foam
- Powder
- Carbon dioxide

### 5.2 Unsuitable extinguishing media:

- None

### 5.3 Special exposure hazards:

- Upon combustion carbon monoxide, carbon dioxide are formed 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: see 8.3

### 6.2 Environmental precautions:

- Use appropriate containment to avoid environmental contamination

### 6.3 Clean-up:

- Cover spill with inert material, e.g.: sand
- Take collected spill to competent authority
- Wash contaminated 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: N.D. °C

### 7.3 Materials for packaging:

- suitable : plastic

# FIRE SILICONE B1

## 8. Exposure controls/Personal protection

### 8.1 Recommended engineering controls:

- Use only in well ventilated area

### 8.2 Exposure limits:

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
MEL-LTEL	: -	mg/m <sup>3</sup>	-	ppm
MEL-STEL	: -	mg/m <sup>3</sup>	-	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

### 8.3 Personal protection:

#### eye protection:

- Safety glasses

#### hand protection:

- Chemically resistant gloves

#### skin protection:

- Suitable protective clothing

#### respiratory protection:

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

# FIRE SILICONE B1

## 9. Physical and chemical properties

9.1 Appearance (at 20°C)	:	Paste	
9.2 Odour	:	No data available	
9.3 Colour	:	White	
9.4 pH value	:	N.D.	
9.5 Boiling point/boiling range	:	N.D.	°C
9.6 Melting point/melting range	:	N.D.	°C
9.7 Flashpoint	:	N.D.	°C
9.8 Auto-ignition point	:	N.D.	°C
9.9 Explosion limits	:	N.D.	vol% ( °C)
9.10 Vapour pressure (at 20°C)	:	N.D.	hPa
9.11 Relative density (at 20°C)	:	N.D.	
9.12 Water solubility	:	Insoluble	
9.13 Soluble in	:	Organic solvents	
9.14 Relative vapour density	:	N.D.	
9.15 Saturation concentration	:	N.D.	g/m <sup>3</sup>
9.16 Viscosity	:	N.D.	Pa.s

## 10. Stability and reactivity

### 10.1 Stability:

- Stable under normal conditions

### 10.2 Reactivity/Hazardous decomposition products:

- Upon combustion carbon monoxide, carbon dioxide are formed and formation of small quantities of nitrous vapours

### 10.3 Conditions/materials to avoid:

- No data available

## 11. Toxicological information

### 11.1 Acute toxicity:

DIBUTYLTIN DILAURATE:

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

### 11.2 Chronic toxicity:

EC carc. cat.: not listed  
EC muta. cat.: not listed  
EC repr. cat.: not listed  
Repr. MAK: D (dibutyltin dilaurate)

Carcinogenicity (TLV): A4 (dibutyltin dilaurate)  
IARC classification : not listed

Obligatory medical control (ARAB-RGPT Art. 124)(Belgium):  
group: not listed

### 11.3 Routes of exposure: ingestion, inhalation, eyes and skin

### 11.4 Acute effects/symptoms:

- Practically non-toxic

### 11.5 Chronic effects:

- None known

# FIRE SILICONE B1

## 12. Ecological information

### 12.1 Mobility:

- Volatile organic compounds (VOC): 52.8 %
- Insoluble in water

### 12.2 Biodegradation:

- |         |                  |        |                               |
|---------|------------------|--------|-------------------------------|
| - soil: | T ½              | : N.D. | days                          |
|         | BOD <sub>5</sub> | : N.D. | g O <sub>2</sub> /g substance |
|         | COD              | : N.D. | g O <sub>2</sub> /g substance |
- water: - No data available

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

### 12.4 Aquatic toxicity:

#### DIBUTYLTIN DILAUATE:

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

### 12.5 Other information:

- WGK: 2 (004)
- Effect on the ozone layer (Council Regulation (EC) No 3093/94) : No
- Waste water purification : N.D.

## 13. Waste disposal considerations

### 13.1 Provisions relating to waste:

- Waste code (Germany) : 55907
- Waste code (91/689/EC) : 08 04 02
- Hazardous waste (91/689/EC)

### 13.2 Disposal methods:

- Landfill or incinerate at an approved site in accordance with national and local regulations
- 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 (91/689/EEC): 15 01 10

# FIRE SILICONE B1

## 14. Transport information

- 14.1 Proper shipping name: N.A.
- 14.2 Transport by road/rail (ADR/RID): N.A.  
Danger code: -  
Danger labels on tanks: -  
on packages: -
- 14.3 Substance identification number (UN number): N.A.  
Packing: -
- 14.4 Maritime transport (IMDG code): N.A.  
EMS : -  
MFAG : -  
Marine pollutant: -
- 14.5 Inland navigation (ADNR): N.A.
- 14.6 Air freight (ICAO): N.A.  
Instruction "passenger": -  
Instruction "cargo": -
- 14.7 Other information: not restricted for any mode of international transport

## 15. Regulatory information

Labelling in accordance with EC directives 67/548/EEC and 1999/45/EC (\*\*:see 16)

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.

Safety data sheet available for professional user on request

# FIRE SILICONE B1

## 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

**\*\*** = The labelling of the substance described in this MSDS complies with the provisions of Directive 1999/45/EC of 31 May 1999, published in the Official Journal of the European Communities L 200 of 30/07/1999. This Directive replaces Directive 88/379/EEC of 7 June 1988, published in the Official Journal of the European Communities L 187 of 16/07/1988.

Member States shall apply the laws, regulations and administrative provisions referred to in article 22 of this Directive:

(a) to preparations not within the scope of Directive 91/414/EEC or Directive 98/8/EC as from 30 July 2002; and

(b) to preparations within the scope of Directive 91/414/EEC or Directive 98/8/EC as from 30 July 2004.

### Exposure limits:

**TLV** : Threshold Limit Value - ACGIH USA 1999  
**OES** : Occupational Exposure Standards - EH40-99 United Kingdom 1999  
**MEL** : Maximum Exposure Limits - EH40-99 United Kingdom 1999  
**MAK** : Maximale Arbeitsplatzkonzentrationen - Germany 2000  
**TRK** : Technische Richtkonzentrationen - Germany 2000  
**MAC** : Maximale aanvaarde concentratie - The Netherlands 2000  
**VME** : Valeurs limites de Moyenne d'Exposition - France 1999  
**VLE** : Valeurs limites d'Exposition à court terme - France 1999  
**GWBB** : Grenswaarde beroepsmatige blootstelling - Belgium KB 12.09.1998  
**GWK** : Grenswaarde kortstondige blootstelling - Belgium KB 12.09.1998

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

### WGK:

001 Internal classification

002 Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 99

003 Classification based on the R phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 99

004 Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 99

**MSDS established** : 04-10-2000  
**Reference number** : BIG\33334GB\_rev01

**Reason for revision** : See 1.2;1.3;4;5.5;6.2;6.3;7.1;7.2;8.1;8.3;13;14.7;15.2  
**Revision date** : 09-03-2001  
**Revision number** : 01