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

1.1 Identification of the substance or preparation:
Product name: Fix All Seals&Bonds Classic

1.2 Use of the substance/preparation:
Sealant

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
msds@soudal.com

1.4 Emergency telephone:
24h/24h: +32 14 58 45 45 (BIG)

2. Hazards identification

DSD/DPD
Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No</th>
<th>Conc.</th>
<th>Classification according to DSD/DPD</th>
<th>Classification according to CLP</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate</td>
<td>52829-07-9</td>
<td>0.1%&lt;C&lt;2.5%</td>
<td>Xi; R36</td>
<td>Eye Irrit. 2; H319 Aquatic Chronic 2; H411</td>
<td>(1)</td>
</tr>
<tr>
<td>dibutylbis(pentane-2,4-dionato-O,O')tin</td>
<td>22673-19-4</td>
<td>0.1%&lt;C&lt;2.5%</td>
<td>Xi; R36/38 N; R51-53</td>
<td>STOT RE 2; H373 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 2; H411</td>
<td>(1)(2)</td>
</tr>
</tbody>
</table>

(1) For R-phrases and H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit

4. First aid measures

4.1 After inhalation:
Remove the victim into fresh air
Respiratory problems: consult a doctor/medical service

4.2 Skin contact:
Rinse with water
Soap may be used
Take victim to a doctor if irritation persists

4.3 Eye contact:
Rinse with water
Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:
Rinse mouth with water
Consult a doctor/medical service if you feel unwell

Created by: Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG)
Technische Schoolstraat 43 A, B-2440 Geel
http://www.big.be

Publication date: 2002-04-28
Date of revision: 2010-11-23
Reason for revision: REACH
Revision number: 0109
Product number: 32412
5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Polyvalent foam
- Dry chemical powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- No unsuitable extinguishing media known

5.3 Special exposure hazards:
- Heating increases the fire hazard
- Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours

5.4 Instructions:
- Take account of environmentally hazardous firefighting water
- Use water moderately and if possible collect or contain it

5.5 Special protective equipment for fire-fighters:
- Gloves
- Protective clothing
- Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:
- See heading 8.2

6.2 Environmental precautions:
- Dam up the solid spill
- Use appropriate containment to avoid environmental contamination
- Prevent soil and water pollution
- Prevent spreading in sewers
- See heading 13

6.3 Methods for cleaning up:
- Cover the solid spill with sand/kieselguhr
- Scoop solid spill into closing containers
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Keep away from naked flames/heat
- Observe normal hygiene standards
- Keep container tightly closed
- Do not discharge the waste into the drain

7.2 Storage:
- Safe storage requirements:
  - Store in a dry area
  - Store at room temperature
  - Meet the legal requirements
  - Max. storage time: 1 year(s)
- Keep away from:
  - No data available
- Suitable packaging material:
  - plastics

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:

If limit values are applicable and available these will be listed below.

### Indicative exposure limit (the Netherlands)

<table>
<thead>
<tr>
<th>Substance: Tin verbindingen (organisch) (als Sn)</th>
<th>Short time value</th>
<th>Time-weighted average exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short time value</td>
<td>0.2 mg/m³</td>
<td>Time-weighted average exposure limit</td>
</tr>
<tr>
<td>Time-weighted average exposure limit</td>
<td>0.1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Limit Value (Belgium)

<table>
<thead>
<tr>
<th>Substance: Tin(organische verbindingen) (als Sn)</th>
<th>Short time value</th>
<th>Time-weighted average exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short time value</td>
<td>- ppm</td>
<td>Time-weighted average exposure limit</td>
</tr>
<tr>
<td>Time-weighted average exposure limit</td>
<td>- ppm</td>
<td></td>
</tr>
</tbody>
</table>

### TLV (USA)

<table>
<thead>
<tr>
<th>Substance: Tin organic compounds as Sn</th>
<th>Short time value</th>
<th>Time-weighted average exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short time value</td>
<td>0.2(Sn) mg/m³</td>
<td>Time-weighted average exposure limit</td>
</tr>
<tr>
<td>Time-weighted average exposure limit</td>
<td>0.1(Sn) mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Limit Value (France)

<table>
<thead>
<tr>
<th>Substance: Etain,(composés organiques d'),en Sn</th>
<th>Short time value</th>
<th>Time-weighted average exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short time value</td>
<td>-(Sn) ppm</td>
<td>Time-weighted average exposure limit</td>
</tr>
<tr>
<td>Time-weighted average exposure limit</td>
<td>-(Sn) ppm</td>
<td></td>
</tr>
</tbody>
</table>

### Limit Value (UK)

<table>
<thead>
<tr>
<th>Substance: Tin compounds, organic, except cyhexatin(ISO) (as Sn)</th>
<th>Short time value</th>
<th>Time-weighted average exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short time value</td>
<td>-(Sn) ppm</td>
<td>Time-weighted average exposure limit</td>
</tr>
<tr>
<td>Time-weighted average exposure limit</td>
<td>-(Sn) ppm</td>
<td></td>
</tr>
</tbody>
</table>

8.1.2 Sampling methods:

<table>
<thead>
<tr>
<th>Product name</th>
<th>Test</th>
<th>Number</th>
<th>Sampling method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Personal protective equipment:

- Respiratory protection:
  - Respiratory protection not required in normal conditions
- Hand protection:
  - Gloves
- Eye protection:
  - Safety glasses
- Skin protection:
  - Protective clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical form</td>
<td>Paste</td>
</tr>
<tr>
<td>Odour</td>
<td>Almost odourless</td>
</tr>
<tr>
<td>Colour</td>
<td>Variable in colour, depending on the composition</td>
</tr>
</tbody>
</table>

9.2 Important health, safety and environmental information:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative density</td>
<td>1.6</td>
</tr>
</tbody>
</table>
Fix All Seals&Bonds Classic

Solubility in solvents

| Soluble in organic solvents |

9.3 Other information:

10. Stability and reactivity

10.1 Conditions to avoid:
- Possible fire hazard
- Heat sources

Stability
- Stable under normal conditions

10.2 Materials to avoid:
- No data available

10.3 Hazardous decomposition products:
- Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours

11. Toxicological information

11.1 Acute toxicity:
- bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

<table>
<thead>
<tr>
<th>LD50 oral (rat)</th>
<th>3700 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 dermal (rat)</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal (rabbit)</td>
<td>&gt; 3100 mg/kg</td>
</tr>
</tbody>
</table>

11.2 Chronic toxicity:
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)
- Not classified as toxic to reproduction (EC)

- dibutylbis(pentane-2,4-dionato-O,O')tin

<table>
<thead>
<tr>
<th>TLV - Carcinogen</th>
<th>A4(Sn)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAK - Schwangerschaft Gruppe</td>
<td>D</td>
</tr>
</tbody>
</table>

11.3 Acute effects/symptoms:
- Unlikely to cause harmful effects

- Inhalation:
  - No data available

- Skin contact:
  - No data available

- Eye contact:
  - No data available

- Ingestion:
  - No data available

11.4 Chronic effects:
- No effects known

12. Ecological information

12.1 Ecotoxicity:
Fix All Seals&Bonds Classic

bi[(2,2,6,6-tetramethyl-4-piperidyl)sebacate]

LC50 fishes | species | value | duration (h) | remarks
---|---|---|---|---
BRACHYDANIO RERIO | 4.4 mg/l | 96 h | |

EC50 Daphnia | species | value | duration (h) | remarks
---|---|---|---|---
DAPHNIA MAGNA | 17 mg/l | 24 h | OECD 202 |

EC50 other aquatic organisms | species | value | duration (h) | remarks
---|---|---|---|---
SCENEDESMUS SUBSPICATUS | 1.9 mg/l | 72 h | |

12.2 Mobility:
- Volatile organic compounds (VOC): 2%
- VOC content (g/l): 34 g/l
- Solubility in/reaction with water: Literature reports: insoluble in water
  Substance sinks in water

12.3 Persistence and degradability:
- Biodegradability in water: no data available

12.4 Bioaccumulative potential:
- No bioaccumulation data available

12.5 Results of PBT assessment:
- Not applicable, based on available data

12.6 Other adverse effects:
- Not dangerous for the ozone layer (1999/45/EC)

13. Disposal considerations

13.1 Provisions relating to waste:
  08 04 10 : waste adhesives and sealants other than those mentioned in 08 04 09
  Depending on branch of industry and production process, also other EURAL codes may be applicable
- Can be considered as non hazardous waste according to Directive 2008/98/EC

13.2 Disposal methods:
- Remove waste in accordance with local and/or national regulations

13.3 Packaging/Container:
- Waste material code packaging (Directive 2008/98/EC)
  15 01 02 : plastic packaging

14. Transport information

ADR

<table>
<thead>
<tr>
<th>Transport</th>
<th>Not subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>-</td>
</tr>
<tr>
<td>Class</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td></td>
</tr>
<tr>
<td>Hazard identification number</td>
<td></td>
</tr>
<tr>
<td>Classification code</td>
<td></td>
</tr>
<tr>
<td>Labels</td>
<td></td>
</tr>
<tr>
<td>Environmentally hazardous substance mark</td>
<td></td>
</tr>
</tbody>
</table>

RID

<table>
<thead>
<tr>
<th>Transport</th>
<th>Not subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>-</td>
</tr>
<tr>
<td>Class</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td></td>
</tr>
</tbody>
</table>

Revision number: 0109  Product number: 32412
15. Regulatory information

15.1 EU Legislation:

DSD/DPD

15.2 National provisions:

The Netherlands
Waterbezwaarlijkheid (for NL) 1
Waste identification other lists of waste materials
LWCA (the Netherlands); KGA category 03

Germany
WGK 2
Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

16. Other information
The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

<table>
<thead>
<tr>
<th>R36</th>
<th>Irritating to eyes</th>
</tr>
</thead>
<tbody>
<tr>
<td>R36/38</td>
<td>Irritating to eyes and skin</td>
</tr>
<tr>
<td>R48/22</td>
<td>Also harmful: danger of serious damage to health by prolonged exposure if swallowed</td>
</tr>
<tr>
<td>R51/53</td>
<td>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
</tbody>
</table>

Full text of any H-statements referred to under headings 2 and 3:

| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure if swallowed |
| H411 | Toxic to aquatic life with long lasting effects. |

Full text of any classes referred to under headings 2 and 3:

| Aquatic Chronic | Hazardous to the aquatic environment - chronic |
| Eye Irrit. | Eye irritation |
| Skin Irrit. | Skin irritation |
| STOT RE | Specific target organ toxicity - repeated exposure |