# SAFETY DATA SHEET

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

# Soudal SMX 505

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

**1.1 Identification of the substance or preparation:**
**Product name:** 1903

**1.2 Use of the substance or the 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

**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.<br>EINECS No. | Conc. in % | Hazard symbol | Risks (R-phrases) |
|---|---|---|---|---|
| bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate | 52829-07-9<br>258-207-9 | 0.1 - <2.5 | Xi;N | 36-51/53 (1) |
| trimethoxyvinylsilane | 2768-02-7<br>220-449-8 | 1 – <2.5 | Xn | 10-20-65 (1) |

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

## 3. Hazards identification

- No hazard classification according to Directive 67/548/EEC and 1999/45/EC

## 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:**
- Water spray
- Polyvalent 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 and hydrogen chloride

**5.4 Instructions:**
- No specific firefighting instructions required

**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:**
- Remove the product by mechanical means
- Take collected spill to competent authority
- Wash clothing and equipment after handling

## 7. Handling and storage

**7.1 Handling:**
- Observe normal hygiene standards

**7.2 Storage:**
- Keep container tightly closed
- Store in a dry area

- Keep away from: water/moisture

| | | | |
|---|---|---|---|
| **Storage temperature** | : | roomtemperature | |
| **Quantity limit** | : | N.D. | **kg** |
| **Storage life** | : | 365 | **days** |
| **Materials for packaging** | : | | |

- suitable : plastic

**7.3 Specific uses:**
- See information supplied by the manufacturer

## 8. Exposure controls/Personal protection

**8.1 Exposure limit values:**

| | | |
|---|---|---|
| **TLV-TWA** | : | not listed |
| **TLV-STEL** | : | not listed |
| **TLV-Ceiling** | : | not listed |
| **OES-LTEL** | : | not listed |
| **OES-STEL** | : | not listed |
| **MAK** | : | not listed |
| **TRK** | : | not listed |
| **MAC-TGG 8 h** | : | not listed |
| **MAC-TGG 15 min.** | : | not listed |
| **MAC-Ceiling** | : | not listed |
| **VME-8 h** | : | not listed |
| **VLE-15 min.** | : | not listed |
| **GWBB-8 h** | : | not listed |
| **GWK-15 min.** | : | not listed |
| **Momentary value** | : | not listed |
| **EC** | : | not listed |
| **EC-STEL** | : | not listed |

**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:**
- Respiratory protection not required in normal conditions

**8.3.2 hand protection:**
- Gloves for exposure to chemicals

**8.3.3 eye protection:**
- Safety glasses

**8.3.4 skin protection:**
- Wear suitable protective clothing

## 9. Physical and chemical properties

### 9.1 General information:

| | | |
|---|---|---|
| Appearance (at 20°C) | : Paste | |
| Odour | : Characteristic | |
| Colour | : Variable in colour | |

### 9.2 Important health, safety and environmental information:

| | | |
|---|---|---|
| pH value | : N.D. | |
| Boiling point/boiling range | : N.D. | **°C** |
| Flashpoint | : > 240 | **°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) | : 1.47 - 1.49 | |
| Water solubility | : Insoluble | |
| Soluble in | : Organic solvents | |
| Relative vapour density | : N.D. | |
| Viscosity | : 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/m³** |

## 10. Stability and reactivity

### 10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

### 10.2 Materials to avoid:

- Water/moisture

### 10.3 Hazardous decomposition products:

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

## 11. Toxicological information

**11.1 Acute toxicity:**

bis(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE:

| | | | |
|---|---|---|---|
| **LD50 oral rat** | : | 3700 | **mg/kg** |
| **LD50 dermal rat** | : | 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** |

TRIMETHOXYVINYLSILANE:

| | | | |
|---|---|---|---|
| **LD50 oral rat** | : | 7120 | **mg/kg** |
| **LD50 dermal rat** | : | N.D. | **mg/kg** |
| **LD50 dermal rabbit** | : | 3434 | **mg/kg** |
| **LC50 inhalation rat** | : | 16 | **mg/l/4 h** |
| **LC50 inhalation rat** | : | 2714 | **ppm/4 h** |

**11.2 Chronic toxicity:**

| | | |
|---|---|---|
| **EC carc. cat.** | : | not listed |
| **EC muta. cat.** | : | not listed |
| **EC repr. cat.** | : | not listed |
| **Carcinogenicity (TLV)** | : | not listed |
| **Carcinogenicity (MAC)** | : | not listed |
| **Carcinogenicity (VME)** | : | not listed |
| **Carcinogenicity (GWBB)** | : | not listed |
| **Carcinogenicity (MAK)** | : | not listed |
| **Mutagenicity (MAK)** | : | not listed |
| **Teratogenicity (MAK)** | : | not listed |
| **IARC classification** | : | not listed |

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

**11.4 Acute effects/symptoms:**

**AFTER EYE CONTACT:**
- Redness of the eye tissue

**AFTER INGESTION:**
AFTER ABSORPTION OF HIGH QUANTITIES:
- Gastrointestinal complaints

**11.5 Chronic effects:**
- Not classified as toxic to reproduction (EC)

## 12. Ecological information

**12.1 Ecotoxicity:**

**bis(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE:**

- LC50 (96 h) : 4.4 mg/l (BRACHYDANIO RERIO)
- EC50 (24 h) : 17 mg/l (DAPHNIA SP.)
- EC50 : 1.9 mg/l (ALGAE)

**TRIMETHOXYVINYLSILANE:**

- LC50 (96 h) : >= 100 mg/l (BRACHYDANIO RERIO)
- EC50 (48 h) : 168.7 mg/l (DAPHNIA MAGNA)

**12.2 Mobility:**

- **Volatile organic compounds (VOC):** 2 %

- Insoluble in water
- Substance sinks in water

- For other physicochemical properties see section 9

**12.3 Persistence and degradability:**

- **biodegradation $BOD_5$** : 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** : 1 (Classification based on the components as per 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 (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09)

**13.2 Disposal methods:**

- Remove to an authorized dump (Class II)
- Do not discharge into drains or the environment

**13.3 Packaging:**

- Waste material code packaging (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 02 (plastic packaging)

## 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 (transport by inland waterways)**

| | | |
|---|---|---|
| **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 transport)**

| | | |
|---|---|---|
| **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 directives 67/548/EEC and 1999/45/EC

LABELLING NOT REQUIRED ACCORDING TO AVAILABLE INFORMATION

SOUDAL

## 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

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

R10 : Flammable
R20 : Harmful by inhalation
R36 : Irritating to eyes
R51/53 : Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R65 : Harmful: may cause lung damage if swallowed

**Exposure limits:**

**TLV** : Threshold Limit Value - ACGIH US 2000
**OES** : Occupational Exposure Standards - United Kingdom 1999
**MEL** : Maximum Exposure Limits - United Kingdom 1999
**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 1998
**GWK** : Grenswaarde kortstondige blootstelling - Belgium 1998
**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:** | fibre | | **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 2002