

SAFETY DATA SHEET

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

SPS POWER ADHESIVE

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

1.1 Identification of the substance or preparation:

- Not applicable

1.2 Use of the substance or the preparation:

Glue/adhesive
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. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	52829-07-9 258-207-9	0.25 - 1.0	Xi;N	36-51/53 (1)
trimethoxyvinylsilane	2768-02-7 220-449-8	1 - 5	Xn	10-20-65 (1)
calcium carbonate	471-34-1 207-439-9	> 10	-	-
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3 217-164-6	0.1 - 1.0	C	34-43 (1)

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

3. Hazards identification

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

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Compiled by : Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG)
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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Reason for revision : See 2 - 8.1 - 11.1 - 12.1 - 15.1

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4. First aid measures

- 4.1 **Eye contact:**
 - Rinse immediately with plenty of water
 - Seek medical advice
- 4.2 **Skin contact:**
 - Wash immediately with lots 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
 - Seek medical advice

5. Fire-fighting measures

- 5.1 **Suitable extinguishing media:**
 - Polyvalent foam
 - Dry chemical powder
 - Carbon dioxide
- 5.2 **Unsuitable extinguishing media:**
 - None
- 5.3 **Special exposure hazards:**
 - Not easily combustible
 - On burning: release of carbon monoxide and carbon dioxide
- 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 headings 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

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7. Handling and storage

7.1 Handling:

- Avoid prolonged and repeated contact with skin

7.2 Storage:

- Keep container tightly closed
- Store in a dry area

- Keep away from: water/moisture

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

7.3 Specific uses:

- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

CALCIUM CARBONATE:

MAC-TGG 8 h	:	10	mg/m ³
MAC-TGG 15 min.	:		mg/m ³
MAC-Ceiling	:		mg/m ³

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:

- 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	: Almost odourless
Colour	: Variable in colour

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)	: 1.5	
Water solubility	: Insoluble	
Soluble in	: N.D.	
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/m ³

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- Unstable on exposure to moisture

10.2 Materials to avoid:

- Keep away from: water/moisture

10.3 Hazardous decomposition products:

- Upon combustion CO and CO₂ are formed and formation of small quantities of hydrogen chloride and nitrous vapours

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

TRIMETHOXYVINYL-SILANE:

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

CALCIUM CARBONATE:

LD50 oral rat	: 6450	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

N-(3-(TRIMETHOXY-SILYL)PROPYL)ETHYLENEDIAMINE:

LD50 oral rat	: 7460	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

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

11.4 Acute effects/symptoms:

AFTER SKIN CONTACT:
ON CONTINUOUS EXPOSURE/CONTACT:
- Tingling/irritation of the skin

AFTER EYE CONTACT:
- Slight irritation

11.5 Chronic effects:

- None known

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)

TRIMETHOXYVINYL-SILANE:

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

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE:

- LC50 : 5 mg/l (PISCES)

12.2 Mobility:

- Volatile organic compounds (VOC): 4 %
- Insoluble in water
- Substance sinks 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 $\frac{1}{2}$: N.D. days

12.4 Bioaccumulative potential:

- log P_{ow} : N.D.
- BCF : N.D.

12.5 Other adverse effects:

- WGK : N.D.
- 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 waste treatment plant
- 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)

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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 (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

Contains: N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

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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 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

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

R10 : Flammable
R20 : Harmful by inhalation
R34 : Causes burns
R36 : Irritating to eyes
R43 : May cause sensitization by skin contact
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65 : Harmful: may cause lung damage if swallowed