

SAFETY DATA SHEET

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

Soudafoam SMX

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:

Sealing compound
Adhesive

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/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
(N-phenylaminomethyl)methyl- dimethoxysilane	17890-10-7 -	0.1 - 1.0	Xn;N	48/22-51/53 (1)
methanol	67-56-1 200-659-6	0.1 - 1.0	F;T	11-23/24/25- 39/23/24/25 (1)
trimethoxyvinylsilane	2768-02-7 220-449-8	1 - 10	Xn	10-20-65 (1)
butane	106-97-8 203-448-7	1 - 10	F+	12 (1)
isobutane	75-28-5 200-857-2	1 - 10	F+	12 (1)
norflurane	811-97-2 212-377-0	1 - 25	-	-

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

3. Hazards identification

- Extremely flammable

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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:**
 - 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:**
 - Polyvalent foam
 - BC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
 - None
- 5.3 Special exposure hazards:**
 - Gas/vapour spreads at floor level: ignition hazard
 - Gas/vapour flammable with air within explosion limits
 - On burning: release of toxic and corrosive gases/vapours: nitrous vapours, hydrofluoric acid, carbon monoxide en carbon dioxide
- 5.4 Instructions:**
 - Cool closed containers with water if they are exposed to the fire
 - Dilute toxic gases with water spray
 - Do not move the load if exposed to heat
- 5.5 Special protective equipment for firefighters:**
 - Heat/fire exposure: compressed air/oxygen apparatus
 - Protective clothing for exposure to chemicals

6. Accidental release measures

- 6.1 Personal protection/precautions:**

See heading 8.2/8.3/13
- 6.2 Environmental precautions:**
 - Use appropriate containment to avoid environmental contamination
- 6.3 Methods of cleaning up:**
 - Allow product to solidify and remove it by mechanical means
 - Carefully collect the spill/leftovers
 - Take collected spill to manufacturer/competent authority
 - Contaminated surfaces: clean with acetone
 - Wash clothing and equipment after handling

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7. Handling and storage

7.1 Handling:

- Observe normal hygiene standards
- Use spark-/explosionproof appliances and lighting system

7.2 Storage:

- Keep out of direct sunlight
- Store in a cool area
- Store in a dry area
- Ventilation at floor level
- Keep away from: heat sources, ignition sources

Storage temperature	:	< 50	°C
Quantity limits	:	N.D.	kg
Storage life	:	N.D.	days
Materials for packaging	:		
- suitable	:	aerosol dispenser	

7.3 Specific uses:

- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

METHANOL:

TLV-TWA	:	mg/m ³	200	ppm
TLV-STEL	:	mg/m ³	250	ppm
TLV-Ceiling	:	mg/m ³		ppm
OES-LTEL	:	mg/m ³	(200)	ppm
OES-STEL	:	mg/m ³	(250)	ppm
MAK	:	mg/m ³	200	ppm
TRK	:	mg/m ³		ppm
MAC-TGG 8 h	:	mg/m ³		
MAC-TGG 15 min.	:	mg/m ³		
MAC-Ceiling	:	mg/m ³		
VME-8 h	:	mg/m ³	200	ppm
VLE-15 min.	:	mg/m ³	1000	ppm
GWBB-8 h	:	mg/m ³	200	ppm
GWK-15 min.	:	mg/m ³	250	ppm
Momentary value	:	mg/m ³		ppm
EC	:	mg/m ³	200	ppm
EC-STEL	:	mg/m ³		ppm

BUTANE:

TLV-TWA	:	mg/m ³	1000	ppm
TLV-STEL	:	mg/m ³	-	ppm
TLV-Ceiling	:	mg/m ³		ppm
OES-LTEL	:	mg/m ³	600	ppm
OES-STEL	:	mg/m ³	750	ppm
MAK	:	mg/m ³	1000	ppm
TRK	:	mg/m ³		ppm
MAC-TGG 8 h	:	mg/m ³		
MAC-TGG 15 min.	:	mg/m ³		
MAC-Ceiling	:	mg/m ³		
VME-8 h	:	mg/m ³	800	ppm
VLE-15 min.	:	mg/m ³	-	ppm
GWBB-8 h	:	mg/m ³	800	ppm
GWK-15 min.	:	mg/m ³	-	ppm
Momentary value	:	mg/m ³		ppm
EC	:	mg/m ³		ppm
EC-STEL	:	mg/m ³		ppm

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ISOBUTANE:

MAK	:	2400	mg/m ³	1000	ppm
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NORFLURANE:

TLV-TWA	:		mg/m ³		ppm
TLV-STEL	:		mg/m ³		ppm
TLV-Ceiling	:		mg/m ³		ppm
OES-LTEL	:	4240	mg/m ³	1000	ppm
OES-STEL	:	-	mg/m ³	-	ppm
MAK	:	4200	mg/m ³	1000	ppm
TRK	:		mg/m ³		ppm
MAC-TGG 8 h	:	4200	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:

- 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)	: Aerosol
Odour	: Characteristic
Colour	: White

9.2 Important health, safety and environmental information:

pH value	: N.D.	
Boiling point/boiling range	: N.D.	°C
Flashpoint	: Contains a (highly) flammable component	
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	: > 1.0	
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 ³

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- Unstable on exposure to heat

10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources

10.3 Hazardous decomposition products:

- On burning: release of toxic and corrosive gases/vapours: nitrous vapours, hydrofluoric acid, carbon monoxide, carbon dioxide and formation of small quantities of phosphorus oxides
- Reacts violently with (some) acids/bases

11. Toxicological information

11.1 Acute toxicity:

METHANOL:

LD50 oral rat	: > 5000	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: 15800	mg/kg
LC50 inhalation rat	: 85	mg/l/4 h
LC50 inhalation rat	: 64000	ppm/4 h

TRIMETHOXYVINYLILANE:

LD50 oral rat	: 7120	mg/kg
LD50 dermal rabbit	: 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

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BUTANE:

LD50 oral rat	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LC50 inhalation rat	: 658	mg/l/4 h
LC50 inhalation rat	: N.D.	ppm/4 h

ISOBUTANE:

LD50 oral rat	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LC50 inhalation rat	: > 50	mg/l/4 h
LC50 inhalation rat	: N.D.	ppm/4 h

NORFLURANE:

LD50 oral rat	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LC50 inhalation rat	: > 2000	mg/l/4 h
LC50 inhalation rat	: > 500000	ppm/4 h

11.2 Chronic toxicity:

METHANOL:

Teratogenicity (MAK) : Group C

BUTANE:

Carcinogenicity (GWBB) : C

NORFLURANE:

Teratogenicity (MAK) : Group C

11.3 Routes of exposure: inhalation, eyes and skin

11.4 Acute effects/symptoms (upon overexposure):

AFTER INHALATION:

EXPOSURE TO HIGH CONCENTRATIONS:

- Coughing
- Irritation of the nasal mucous membranes
- CNS depression
- Headache
- Dizziness
- Disturbances of consciousness

AFTER SKIN CONTACT:

- Slight irritation

AFTER EYE CONTACT:

- Slight irritation

11.5 Chronic effects:

- Contains substance of group C (MAK-Schwangerschaftsgruppe) (methanol; norflurane)
- Not listed in carcinogenicity class (IARC, EC, TLV, MAK)
- Not listed in mutagenicity class (EC, MAK)

12. Ecological information

12.1 Ecotoxicity:

METHANOL:

- LC50 (96 h) : 10800 mg/l (SALMO GAIIRDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 24500 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 8000 mg/l (ALGAE)

TRIMETHOXYVINYLILANE:

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

12.2 Mobility:

- Volatile organic compounds (VOC): 36%
- Insoluble 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 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 : May contribute to the greenhouse effect
- 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)
- Waste material code (Flanders): 015; 651
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Refer to manufacturer/supplier for information on recovery/recycling
- Do not discharge into drains or the environment

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)

14. Transport information



14.1 Classification of the substance in compliance with UN Recommendations

UN number	:	1950
CLASS	:	2.2
SUB RISKS	:	-
PACKING	:	-
PROPER SHIPPING NAME	:	
UN 1950, Aerosols		

14.2 ADR (transport by road)

CLASS	:	2
PACKING	:	
CLASSIFICATION CODE	:	5 A
DANGER LABEL TANKS	:	-
DANGER LABEL PACKAGES	:	2.2

14.3 RID (transport by rail)

CLASS	:	2
PACKING	:	
CLASSIFICATION CODE	:	5 A
DANGER LABEL TANKS	:	-
DANGER LABEL PACKAGES	:	2.2

14.4 ADNR (transport by inland waterways)

CLASS	:	2
PACKING	:	
CLASSIFICATION CODE	:	5A
DANGER LABEL TANKS	:	-
DANGER LABEL PACKAGES	:	2.2

14.5 IMDG (maritime transport)

CLASS	:	2.2
SUB RISKS	:	-
PACKING	:	-
MFAG	:	-
EMS	:	F-D, S-U
MARINE POLLUTANT	:	-

14.6 ICAO (air transport)

CLASS	:	2.1
SUB RISKS	:	-
PACKING	:	-
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:	203/Y203
PACKING INSTRUCTIONS CARGO AIRCRAFT	:	203

14.7 Special precautions in connection with transport

: None

14.8 Limited quantities (LQ)

:

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:

each package shall display a diamond-shaped figure with the following inscription:

- 'UN 1950'

or, in the case of different goods with different identification numbers within a single package:

- the letters 'LQ'

15. Regulatory information

Labelling in accordance with directives 67/548/EEC and 1999/45/EC



Extremely flammable

S23 : Do not breathe spray
S51 : Use only in well ventilated area

Keep away from sources of ignition - No smoking.
Keep out of reach of children.
Pressurized container. Protect from sunlight and do not expose
to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material

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 (NFPA)

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2004
OES : Occupational Exposure Standards - United Kingdom 2003
MEL : Maximum Exposure Limits - United Kingdom 2003
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2002
TRK : Technische Richtkonzentrationen - Germany 2002
MAC : Maximale aanvaarde concentratie - The Netherlands 2004
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

a:	aerosol	r:	rook/Rauch	(fume)
d:	damp	st:	stof/Staub	(dust)
du:	dust	ve:	vezel	(fibre)
fa:	Faser	va:	vapour	
fi:	fibre	om:	oil mist	
fu:	fume	on:	olienevel/Ölnebel	(oil mist)
p:	poussière	part:	particles	

Chronic toxicity:

K: List of the carcinogenic substances and processes - The Netherlands 2004

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

R10 : Flammable
R11 : Highly flammable
R12 : Extremely flammable
R20 : Harmful by inhalation
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed
R39/23/24/25 : Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R48/22 : Harmful: danger of serious damage to health by prolonged exposure if swallowed
R51/53 : Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R65 : Harmful: may cause lung damage if swallowed