

# SAFETY DATA SHEET

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

## Metal Plastic Universal

### 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:

Sealant

#### 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)
styrene	100-42-5 202-851-5	< 12.5	Xn	10-20-36/38 (1)
talc (Mg3H2(SiO3)4)	14807-96-6 238-877-9	> 25	-	-
dolomite	16389-88-1 240-440-2	> 15	-	-

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

### 3. Hazards identification

- Flammable

### 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  
- Do not induce vomiting  
- Seek medical advice

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Reference number : BIG\35298GB Revision number : 003  
Reason for revision : See 2 - 8.1 - 11.2

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## 5. Fire-fighting measures

### 5.1 Suitable extinguishing media:

- Polyvalent foam
- ABC powder
- Carbon dioxide

### 5.2 Unsuitable extinguishing media:

- None

### 5.3 Special exposure hazards:

- Upon combustion CO and CO<sub>2</sub> are formed
- Gas/vapour flammable with air within explosion limits

### 5.4 Instructions:

- No specific firefighting instructions required

### 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 headings 8.2/8.3/13

### 6.2 Environmental precautions:

- Use appropriate containment to avoid environmental contamination

### 6.3 Methods of cleaning up:

- Take up liquid spill into inert absorbent material
- Absorbed substance: shovel in closing drums
- Carefully collect the spill/leftovers
- Take collected spill to manufacturer/competent authority
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

## 7. Handling and storage

### 7.1 Handling:

- In case of insufficient ventilation: use spark-/explosionproof appliances and lighting system
- In case of insufficient ventilation: take precautionary measures against static discharges
- Observe normal hygiene standards
- Do not discharge the waste into the drain

### 7.2 Storage:

- Keep container tightly closed
- Keep out of direct sunlight
- Store in a dry area
  
- Keep away from: heat sources, ignition sources

Storage temperature	:	Room temperature
Quantity limits	:	N.D.           kg
Storage life	:	365            days
Materials for packaging	:	
- suitable	:	tin

### 7.3 Specific uses:

- See information supplied by the manufacturer

## 8. Exposure controls/Personal protection

### 8.1 Exposure limit values:

STYRENE:

TLV-TWA	:		mg/m <sup>3</sup>	20		ppm
TLV-STEL	:		mg/m <sup>3</sup>	40		ppm
TLV-Ceiling	:		mg/m <sup>3</sup>			ppm
MEL-LTEL	:	430	mg/m <sup>3</sup>	100		ppm
MEL-STEL	:	1080	mg/m <sup>3</sup>	250		ppm
MAK	:	86	mg/m <sup>3</sup>	20		ppm
TRK	:		mg/m <sup>3</sup>			ppm
MAC-TGG 8 h	:	107	mg/m <sup>3</sup>			
MAC-TGG 15 min.	:		mg/m <sup>3</sup>			
MAC-Ceiling	:		mg/m <sup>3</sup>			
VME-8 h	:	215	mg/m <sup>3</sup>	50		ppm
VLE-15 min.	:	-	mg/m <sup>3</sup>	-		ppm
GWBB-8 h	:	216	mg/m <sup>3</sup>	50		ppm
GWK-15 min.	:	432	mg/m <sup>3</sup>	100		ppm
Momentary value	:		mg/m <sup>3</sup>			ppm
EC	:		mg/m <sup>3</sup>			ppm
EC-STEL	:		mg/m <sup>3</sup>			ppm

TALC (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):

TLV-TWA	:	2 R	mg/m <sup>3</sup>			ppm
TLV-STEL	:		mg/m <sup>3</sup>			ppm
TLV-Ceiling	:		mg/m <sup>3</sup>			ppm
OES-LTEL	:	1 R	mg/m <sup>3</sup>	-		ppm
OES-STEL	:	-	mg/m <sup>3</sup>	-		ppm
MAK	:	2 A	mg/m <sup>3</sup>			ppm
TRK	:		mg/m <sup>3</sup>			ppm
MAC-TGG 8 h	:	1 R	mg/m <sup>3</sup>			
MAC-TGG 15 min.	:		mg/m <sup>3</sup>			
MAC-Ceiling	:		mg/m <sup>3</sup>			
VME-8 h	:		mg/m <sup>3</sup>			ppm
VLE-15 min.	:		mg/m <sup>3</sup>			ppm
GWBB-8 h	:	2 R	mg/m <sup>3</sup>	-		ppm
GWK-15 min.	:	-	mg/m <sup>3</sup>	-		ppm
Momentary value	:		mg/m <sup>3</sup>			ppm
EC	:		mg/m <sup>3</sup>			ppm
EC-STEL	:		mg/m <sup>3</sup>			ppm

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## DOLOMITE :

TLV-TWA	: 3 R/10 I	mg/m <sup>3</sup>		ppm
TLV-STEL	: -	mg/m <sup>3</sup>		ppm
TLV-Ceiling	: -	mg/m <sup>3</sup>		ppm
OES-LTEL	: 4 R/10 I	mg/m <sup>3</sup>	-	ppm
OES-STEL	: -	mg/m <sup>3</sup>	-	ppm
MAK	: 1.5 A/4 E	mg/m <sup>3</sup>		ppm
TRK	: -	mg/m <sup>3</sup>		ppm
MAC-TGG 8 h	: 5 R/10 I	mg/m <sup>3</sup>		
MAC-TGG 15 min.	: -	mg/m <sup>3</sup>		
MAC-Ceiling	: -	mg/m <sup>3</sup>		
VME-8 h	: 5 A/10 T	mg/m <sup>3</sup>	-	ppm
VLE-15 min.	: -	mg/m <sup>3</sup>	-	ppm
GWBB-8 h	: 3 R/10 I	mg/m <sup>3</sup>	-	ppm
GWK-15 min.	: -	mg/m <sup>3</sup>	-	ppm
Momentary value	: -	mg/m <sup>3</sup>		ppm
EC	: -	mg/m <sup>3</sup>		ppm
EC-STEL	: -	mg/m <sup>3</sup>		ppm

## 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 filter type A

### 8.3.2 hand protection:

- Chemically resistant gloves

### 8.3.3 eye protection:

- Protective goggles

### 8.3.4 skin protection:

- Suitable protective clothing

## 9. Physical and chemical properties

### 9.1 General information:

Appearance (at 20°C)	: Viscous
Odour	: Solvent
Colour	: Variable in colour

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

pH value	: N.D.	
Boiling point/boiling range	: N.D.	°C
Flashpoint	: 34	°C
Explosion limits	: 1.1 - 6.1	Vol%
Vapour pressure (at 20°C)	: 5	hPa
Vapour pressure (at 50°C)	: N.D.	hPa
Relative density (at 20°C)	: 1.9	
Water solubility	: Insoluble	
Soluble in	: No data available	
Relative vapour density	: > 1	
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 <sup>3</sup>

## 10. Stability and reactivity

### 10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

### 10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources

### 10.3 Hazardous decomposition products:

- Upon combustion CO and CO<sub>2</sub> are formed

## 11. Toxicological information

### 11.1 Acute toxicity:

STYRENE:

LD50 oral rat	: 5000	mg/kg
LD50 dermal rabbit	: 2820	mg/kg
LD50 dermal rabbit	: 5010	mg/kg
LC50 inhalation rat	: 24	mg/l/4 h
LC50 inhalation rat	: 5640	ppm/4 h

### 11.2 Chronic toxicity:

STYRENE:

EC carc. cat.	: not listed
EC muta. cat.	: not listed
EC repr. cat.	: not listed
Carcinogenicity (TLV)	: A4
Carcinogenicity (MAC)	: not listed
Carcinogenicity (VME)	: not listed
Carcinogenicity (GWBB)	: not listed
Carcinogenicity (MAK)	: category 5
Mutagenicity (MAK)	: not listed
Teratogenicity (MAK)	: Group C
IARC classification	: 2B

TALC ( $Mg_3H_2(SiO_3)_4$ ):

EC carc. cat.	: not listed
EC muta. cat.	: not listed
EC repr. cat.	: not listed
Carcinogenicity (TLV)	: A4
Carcinogenicity (MAC)	: not listed
Carcinogenicity (VME)	: not listed
Carcinogenicity (GWBB)	: not listed
Carcinogenicity (MAK)	: not listed
Mutagenicity (MAK)	: not listed
Teratogenicity (MAK)	: Group C
IARC classification	: 3

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

### 11.4 Acute effects/symptoms:

AFTER INHALATION:

ON CONTINUOUS EXPOSURE/CONTACT:

- Headache
- Nausea

### 11.5 Chronic effects:

- Contains substance of group C (MAK-Schwangerschaftsgruppe (styrene; talc)
- Contains substance with uncertain carcinogenic properties (styrene)
- Not listed in mutagenicity class (EC,MAK)

ON CONTINUOUS EXPOSURE/CONTACT:

- Dry skin

## 12. Ecological information

### 12.1 Ecotoxicity:

#### STYRENE:

- LC50 (96 h) : 25.1 mg/l (LEPOMIS MACROCHIRUS)
- EC50 (48 h) : 23 mg/l (DAPHNIA MAGNA)

#### TALC (Mg3H2(SiO3)4):

- LC50 (24 h) : >100 g/l (BRACHYDANIO RERIO)

### 12.2 Mobility:

- Volatile organic compounds (VOC): 12%
- Insoluble in water
- Substance sinks in water

For other physicochemical properties see section 9

### 12.3 Persistence and degradability:

- Biodegradation BOD<sub>5</sub> : N.D. % ThOD
- Water : No data available
- Soil : T ½ N.D. days

### 12.4 Bioaccumulative potential:

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

### 12.5 Other adverse effects:

- WGK : 2 (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 : No data available
- 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; 516
- Hazardous waste (91/689/EEC)

### 13.2 Disposal methods:

- Incinerate under surveillance
- Do not discharge into surface water

### 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 : -  
CLASS : NOT SUBJECT  
SUB RISKS :  
PACKING :  
PROPER SHIPPING NAME :  
UN 1993, Flammable liquid, n.o.s. (styrene, monomer, stabilized)

### 14.2 ADR (transport by road)

CLASS : NOT SUBJECT  
PACKING :  
CLASSIFICATION CODE :  
DANGER LABEL TANKS :  
DANGER LABEL PACKAGES :

### 14.3 RID (transport by rail)

CLASS : NOT SUBJECT  
PACKING :  
CLASSIFICATION CODE :  
DANGER LABEL TANKS :  
DANGER LABEL PACKAGES :

### 14.4 ADNR (transport by inland waterways)

CLASS : NOT SUBJECT  
PACKING :  
CLASSIFICATION CODE :  
DANGER LABEL TANKS :  
DANGER LABEL PACKAGES :

### 14.5 IMDG (maritime transport)

CLASS : 3  
SUB RISKS : -  
PACKING : III  
MFAG : -  
EMS : F-E, S-E  
MARINE POLLUTANT : -

### 14.6 ICAO (air transport)

CLASS : 3  
SUB RISKS : -  
PACKING : III  
PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 309/Y309  
PACKING INSTRUCTIONS CARGO AIRCRAFT : 310

### 14.7 Special precautions in connection with transport

Not subject to ADR, RID, ADNR and IMDG: viscous liquid with a flash point ranging from 23°C to 61°C, which meets the conditions indicated in 2.2.3.1.5 of ADR, RID and ADNR and in 2.3.2.5 of IMDG

## 15. Regulatory information

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

R10 : Flammable

S(02) : (Keep out of reach of children)  
S23 : Do not breathe vapour

## 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 US 2003  
**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 2003  
**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

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

### Chronic toxicity:

**K** : List of the carcinogenic substances and processes - The Netherlands 2003

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

R10 : Flammable  
R20 : Harmful by inhalation  
R36/38 : Irritating to eyes and skin