

**Soudafoam Maxi****1. Identification of the substance/preparation and of the company/undertaking****1.1 Identification of the substance or preparation:**

Product name : Soudafoam Maxi

**1.2 Use of the substance/preparation:**

Polyurethane

**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  
e-mail address: msds@soudal.com

**1.4 Emergency telephone:**

+32 14 58 45 45 (24/24 h)  
Information centre on dangerous goods (BIG)  
Technische Schoolstraat 43 A, B-2440 Geel, Belgium

**2. Hazards identification**

- Extremely flammable
- Harmful by inhalation
- Irritating to eyes, respiratory system and skin
- May cause sensitization by inhalation and skin contact

**3. Composition/information on ingredients**

| Hazardous ingredients             | CAS No.               | Conc. (%) | Hazards<br>(R-phrases)   | Hazard<br>symbol |
|-----------------------------------|-----------------------|-----------|--------------------------|------------------|
|                                   | EINECS/ELINCS No.     |           |                          |                  |
| polymethylenepolyphenylisocyanate | 9016-87-9<br>-        | >25       | 20-36/37/38-42/43<br>(1) | Xn               |
| 1,1-difluoroethane                | 75-37-6<br>200-866-1  | 1 - <10   | 12 (1)                   | F+               |
| propane                           | 74-98-6<br>200-827-9  | 1 - <10   | 12 (1)                   | F+               |
| isobutane                         | 75-28-5<br>200-857-2  | 1 - <10   | 12 (1)                   | F+               |
| dimethyl ether                    | 115-10-6<br>204-065-8 | 1 - <10   | 12 (1)                   | F+               |

(1) For R-phrases in full: see heading 16  
(2) Substance with a Community workplace exposure limit  
(3) PBT-substance

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## 4. First aid measures

- 4.1 After inhalation:**
- Remove the victim into fresh air
  - Respiratory difficulties: consult a doctor/medical service
- 4.2 Skin contact:**
- Rinse immediately with plenty of water
  - Take victim to a doctor if irritation persists
- 4.3 Eye contact:**
- Rinse immediately with plenty of water
  - Do not apply neutralizing agents
  - Take victim to an ophthalmologist if irritation persists
- 4.4 After ingestion:**
- Rinse mouth with water
  - Immediately after ingestion: give lots of water to drink
  - Do not induce vomiting
  - If you feel unwell: consult a doctor/medical service

## 5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Quantities of water
  - Polyvalent foam
  - BC powder
  - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- No data available
- 5.3 Special exposure hazards:**
- Gas/vapour spreads at floor level: ignition hazard
  - Gas/vapour flammable with air within explosion limits
  - On heating: release of toxic/combustible gases/vapours: hydrogen cyanide
  - Aerosol may explode under the effect of heat
- 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 fire-fighters:**
- Heat/fire exposure: compressed air/oxygen apparatus

## 6. Accidental release measures

- 6.1 Personal precautions:**
- see heading 8.2/13
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
- 6.3 Methods for 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 (treat) with acetone
  - Wash clothing and equipment after handling

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## 7. Handling and storage

### 7.1 Handling:

- Observe very strict hygiene - avoid contact
- Remove contaminated clothing immediately
- Clean contaminated clothing
- IN CASE OF INSUFFICIENT VENTILATION:  
Use spark-/explosionproof appliances and lighting system

### 7.2 Storage:

- Keep out of direct sunlight
- Store in a cool area
- Ventilation at floor level
- Fireproof storeroom
  
- Keep away from: heat sources, ignition sources, acids, bases, amines

|                         |                     |      |
|-------------------------|---------------------|------|
| Storage temperature     | : < 50              | °C   |
| Quantity limit          | : N.D.              | kg   |
| Storage life            | : 365               | days |
| Materials for packaging | :                   |      |
| - suitable              | : aerosol dispenser |      |

### 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:

POLYMETHYLENENPOLYPHENYLISOCYANATE:

|          |               |                   |          |     |
|----------|---------------|-------------------|----------|-----|
| WEL-LTEL | : 0.02 (-NCO) | mg/m <sup>3</sup> | - (-NCO) | ppm |
| WEL-STEL | : 0.07 (-NCO) | mg/m <sup>3</sup> | - (-NCO) | ppm |
| MAK      | : -           | mg/m <sup>3</sup> | -        | ppm |

PROPANE:

|             |        |                   |      |     |
|-------------|--------|-------------------|------|-----|
| TLV-TWA     | :      | mg/m <sup>3</sup> | 1000 | ppm |
| TLV-STEL    | :      | mg/m <sup>3</sup> | -    | ppm |
| TLV-Ceiling | :      | mg/m <sup>3</sup> | -    | ppm |
| TRGS 900    | : 1800 | mg/m <sup>3</sup> | 1000 | ppm |
| MAK         | : 1800 | mg/m <sup>3</sup> | 1000 | ppm |
| GWBB-8 h    | : -    | mg/m <sup>3</sup> | 1000 | ppm |
| GWK-15 min. | : -    | mg/m <sup>3</sup> | -    | ppm |

ISOBUTANE:

|                 |        |                   |      |     |
|-----------------|--------|-------------------|------|-----|
| TRGS 900        | : 2400 | mg/m <sup>3</sup> | 1000 | ppm |
| MAK             | : 2400 | mg/m <sup>3</sup> | 1000 | ppm |
| GWBB-8 h        | : -    | mg/m <sup>3</sup> | 1000 | ppm |
| GWK-15 min.     | : -    | mg/m <sup>3</sup> | -    | ppm |
| Momentary value | :      | mg/m <sup>3</sup> | -    | ppm |

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DIMETHYL ETHER

|                 |        |                   |      |     |
|-----------------|--------|-------------------|------|-----|
| WEL-LTEL        | : 766  | mg/m <sup>3</sup> | 400  | ppm |
| WEL-STEL        | : 958  | mg/m <sup>3</sup> | 500  | ppm |
| TRGS 900        | : 1900 | mg/m <sup>3</sup> | 1000 | ppm |
| MAK             | : 1900 | mg/m <sup>3</sup> | 1000 | ppm |
| MAC-TGG 8 h     | : 950  | mg/m <sup>3</sup> |      |     |
| MAC-TGG 15 min. | : 1500 | mg/m <sup>3</sup> |      |     |
| MAC-Ceiling     | :      | mg/m <sup>3</sup> |      |     |
| VME-8 h         | : 1920 | mg/m <sup>3</sup> | 1000 | ppm |
| VLE-15 min.     | : -    | mg/m <sup>3</sup> | -    | ppm |
| GWBB-8 h        | : 1920 | mg/m <sup>3</sup> | 1000 | ppm |
| GWK-15 min.     | : -    | mg/m <sup>3</sup> | -    | ppm |
| Momentary value | :      | mg/m <sup>3</sup> |      | ppm |
| EC              | : 1920 | mg/m <sup>3</sup> | 1000 | ppm |
| EC-STEL         | : -    | mg/m <sup>3</sup> | -    | ppm |

**8.1.2 Sampling methods:**

- Isocyanates
- Papi
- Propane
- Isocyanates

NIOSH 5521  
 OSHA CSI  
 OSHA CSI  
 NIOSH 5522

**8.2 Exposure controls:**

**8.2.1 Occupational exposure controls:**

- Measure the concentration in the air regularly

**Personal protective equipment:**

**a) Respiratory protection:**

- Gas mask with filter type A at conc. in air > exposure limit

**b) Hand protection:**

- Gloves

**c) Eye protection:**

- Protective goggles

**d) Skin protection:**

- Protective clothing

**8.2.2 Environmental exposure controls:** see heading 6.2, 6.3 and 13

# Soudafoam Maxi

## 9. Physical and chemical properties

### 9.1 General information:

Appearance (at 20°C) : Aerosol  
Odour : Characteristic  
Colour : Variable in colour

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

pH value (at 20°C) : N.D.  
Boiling point/boiling range : N.D. °C  
Flashpoint : Contains (highly) flammable component(en)  
Explosion limits (explosive properties) : N.D. Vol%  
Oxidising properties : N.D.  
Vapour pressure (at 20°C) : N.D. hPa  
Vapour pressure (at 50°C) : N.D. hPa  
Relative density (at 20°C) : 1.0  
Water solubility : Insoluble  
Soluble in : organic solvents  
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>  
Specific conductivity : N.D. pS/m

## 10. Stability and reactivity

### 10.1 Conditions to avoid:

- Stable under normal conditions

### 10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources, acids, bases, amines

### 10.3 Hazardous decomposition products:

- May polymerize on exposure to temperature rise  
- On heating: release of toxic/combustible gases/vapours: hydrogen cyanide  
- On burning: release of toxic and corrosive gases/vapours: phosphorus oxides, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide en hydrogen fluoride  
- May polymerize with many compounds, e.g.: (strong) bases and amines  
- Reacts violently with (some) acids/bases

## 11. Toxicological information

### 11.1 Acute toxicity:

POLYMETHYLENENPOLYPHENYLISOCYANATE:

LD50 oral rat : > 10000 mg/kg  
LD50 dermal rabbit : > 5000 mg/kg

1,1-DIFLUOROETHANE:

LC50 inhalation rat : 176 mg/l/4 h  
LC50 inhalation rat : 64000 ppm/4 h

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PROPANE:

LC50 inhalation rat : 513 mg/l/4 h  
LC50 inhalation rat : 280000 ppm/4 h

ISOBUTANE:

LC50 inhalation rat : > 50 mg/l/4 h

DIMETHYL ETHER:

LC50 inhalation rat : 309 mg/l/4 h  
LC50 inhalation rat : 163991 ppm/4 h

## 11.2 Chronic toxicity:

POLYMETHYLENEPOLYPHENYLISOCYANATE:

Teratogenicity (MAK) : Group -

PROPANE:

Teratogenicity (MAK) : Group -

ISOBUTANE

Teratogenicity (MAK) : Group -

DIMETHYL ETHER:

Teratogenicity (MAK) : Group D

1.3 Routes of exposure: inhalation, eyes and skin

## 11.4 Acute effects/symptoms (upon overexposure):

### AFTER INHALATION:

- Dry/sore throat
- Coughing
- Irritation of the respiratory tract
- Irritation of the nasal mucous membranes
- Runny nose

### FOLLOWING SYMPTOMS MAY APPEAR LATER:

- Inflammation of the respiratory tract
- Risk of lung oedema
- Respiratory difficulties

### AFTER SKIN CONTACT:

- Tingling/irritation of the skin

### AFTER INGESTION:

- Irritation of the gastric/intestinal mucosa

### AFTER EYE CONTACT:

- Irritation of the eye tissue
- Lacrimation

## 11.5 Chronic effects:

- May cause sensitization by skin contact
- May cause sensitization by inhalation
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)
- Not classified as toxic to reproduction (EC)

### ON CONTINUOUS EXPOSURE/CONTACT:

- Feeling of weakness
- Itching
- Skin rash/inflammation
- May stain the skin
- Dry skin
- Coughing
- Inflammation of the respiratory tract
- Respiratory difficulties

## 12. Ecological information

### 12.1 Ecotoxicity:

- No data available
- **Effect on waste water purification** : No data available

### 12.2 Mobility:

- **Volatile organic compounds (VOC):** 22%
- Insoluble in water

For other physicochemical properties see heading 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.
- Contains not readily biodegradable component(s)

### 12.5 Results of PBT assessment:

- Not applicable, on the basis of the available data

### 12.6 Other adverse effects:

- **WGK** : - (No water pollutant (classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005))
- **Effect on the ozone layer** : Not dangerous for the ozone layer (1999/45/EC)
- **Greenhouse effect** : May contribute to the greenhouse effect (Council Regulation (EC) No 842/2006, O.J. L161 of 14/6/2006)

## 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)
- LWCA (the Netherlands): KGA category 06
- Hazardous waste (91/689/EEC)

### 13.2 Disposal methods:

- Specific treatment
- 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               : 2.1
SUB RISKS           : -
PACKING GROUP       : -
    
```

### 14.2 ADR (transport by road)

```

CLASS               : 2
PACKING GROUP       : Not applicable
CLASSIFICATION CODE : 5F
DANGER LABEL TANKS : -
DANGER LABEL PACKAGES : 2.1
PROPER SHIPPING NAME :
Aerosols
    
```

### 14.3 RID (transport by rail)

```

CLASS               : 2
PACKING GROUP       : Not applicable
CLASSIFICATION CODE : 5F
DANGER LABEL TANKS : -
DANGER LABEL PACKAGES : 2.1
PROPER SHIPPING NAME :
Aerosols
    
```

### 14.4 ADNR (inland navigation)

```

CLASS               : 2
PACKING GROUP       : Not applicable
CLASSIFICATION CODE : 5F
DANGER LABEL TANKS : -
DANGER LABEL PACKAGES : 2.1
    
```

### 14.5 IMDG (maritime transport)

```

CLASS               : 2.1
SUB RISKS           : -
PACKING GROUP       : -
MFIAG              : -
EMS                 : F-D, S-U
MARINE POLLUTANT   : -
    
```

### 14.6 ICAO (air freight)

```

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

### 14.7 Special precautions

```
: 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

### 15.1 EU Legislation:

Labelling in accordance with EC directives 67/548/EEC, 1999/45/EC and 2006/8/EC

Extremely flammable

Harmful

Contains: polymethylenepolyphenylisocyanate

R20 : Harmful by inhalation  
R36/37/38 : Irritating to eyes, respiratory system and skin  
R42/43 : May cause sensitization by inhalation and skin contact

S23 : Do not breathe spray  
S24 : Avoid contact with skin  
S37 : Wear suitable gloves  
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)  
S(63) : (In case of accident by inhalation: remove casualty to fresh air and keep at rest)

Contains isocyanates. See information supplied by the manufacturer.

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

### 15.2 National provisions:

#### the Netherlands:

Waterbezwaarlijkheid: N.D.

#### Germany:

Wassergefährdungsklasse

WGK : - (No water pollutant (classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005))

## 16. Other information

The information provided on this SDS 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)

**PBT-substances** = persistent, bioaccumulative and toxic substances

### Exposure limits:

**TLV** : Threshold Limit Value - ACGIH US  
**WEL** : Workplace Exposure Limits - United Kingdom  
**TRGS 900** : Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany  
**MAK** : Maximale Arbeitsplatzkonzentrationen - Germany  
**MAC** : Maximale aanvaarde concentratie - the Netherlands  
**VME** : Valeurs limites de Moyenne d'Exposition - France  
**VLE** : Valeurs limites d'Exposition à court terme - France  
**GWBB** : Grenswaarde beroepsmatige blootstelling - Belgium  
**GWK** : Grenswaarde kortstondige blootstelling - Belgium  
**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> fibre    |          | <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

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

**R12** : Extremely flammable  
**R20** : Harmful by inhalation  
**R36/37/38** : Irritating to eyes, respiratory system and skin  
**R42/43** : May cause sensitization by inhalation and skin contact