

Primer 150**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:**
Primer
- 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) |
|---------------------------------|------------------------------|---------------|------------------|-----------------------------|
| toluene | 108-88-3 203-625-9 | > 25 | F+Xn | 11-38-48/20-63-65-67 (1) |
| butan-1-ol | 71-36-3 200-751-6 | 1 - 5 | Xn | 10-22-37/38-41-67 (1) |
| trimethoxy(methyl)silane | 1185-55-3 214-685-0 | 1 - 5 | F+Xi | 11-38 (1) |
| n-butyl methacrylate, inhibited | 97-88-1 202-615-1 | 0.1 - 1.0 | Xi | 10-36/37/38-43 (1) |
| methyl methacrylate | 80-62-6 201-297-1 | 0.1 - 1.0 | F+Xi | 11-37/38-43 (1) |

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

3. Hazards identification

- Highly flammable
- Irritating to skin
- Harmful: danger of serious damage to health by prolonged exposure through inhalation
- Possible risk of harm to the unborn child
- Harmful: may cause lung damage if swallowed
- Vapours may cause drowsiness and dizziness

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Technische Schoolstraat 43 A, B-2440 Geel
☎ +32 14 58 45 47 http://www.big.be E-mail: info@big.be

MSDS established : 10-05-2002 Revision date : 13-10-2005
Reference number : BIG\32576GB Revision number : 006
Reason for revision : See 2 - 15

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

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Water spray
 - 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
 - May build up electrostatic charges: risk of ignition
 - Upon combustion CO and CO₂ are formed
- 5.4 Instructions:**
- Cool closed containers with water if they are exposed to the fire
 - Take account of environmentally hazardous firefighting water
 - Use firefighting water moderately and contain it
- 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 8.2/8.3/13
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
- 6.3 Methods of cleaning up:**
- Take up liquid spill in non-combustible absorbent material e.g.: sand, slaked lime or soda ash (sodium carbonate)
 - Shovel absorbed substance in closing drums
 - Carefully collect the spill/leftovers
 - Take collected spill to manufacturer/competent authority
 - Clean contaminated surfaces with an excess of water

Primer 150

7. Handling and storage

7.1 Handling:

- Observe strict hygiene
- Use spark-/explosionproof appliances and lighting system
- Take precautions against electrostatic charges
- Do not discharge the waste into the drain

7.2 Storage:

- Keep container tightly closed
- Store in a dry area

- Keep away from: heat sources, ignition sources, oxidizing agents

Storage temperature : Room temperature
Quantity limit : 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:

TOLUENE:

| | | | | |
|-----------------|---|-------------------|-------------------|---------|
| TLV-TWA | : | mg/m ³ | 50 | ppm |
| TLV-STEL | : | mg/m ³ | - | ppm |
| TLV-Ceiling | : | mg/m ³ | | ppm |
| OES-LTEL | : | 191 | mg/m ³ | 50 ppm |
| OES-STEL | : | 574 | mg/m ³ | 150 ppm |
| MAK | : | 190 | mg/m ³ | 50 ppm |
| TRK | : | | mg/m ³ | ppm |
| MAC-TGG 8 h | : | 150 | mg/m ³ | |
| MAC-TGG 15 min. | : | | mg/m ³ | |
| MAC-Ceiling | : | | mg/m ³ | |
| VME-8 h | : | 375 | mg/m ³ | 100 ppm |
| VLE-15 min. | : | 550 | mg/m ³ | 150 ppm |
| GWBB-8 h | : | 191 | mg/m ³ | 50 ppm |
| GWK-15 min. | : | - | mg/m ³ | - ppm |
| Momentary value | : | | mg/m ³ | - ppm |

BUTANOL:

| | | | | |
|-----------------|---|-------------------|-------------------|---------|
| TLV-TWA | : | mg/m ³ | 20 | ppm |
| TLV-STEL | : | mg/m ³ | - | ppm |
| TLV-Ceiling | : | mg/m ³ | | ppm |
| OES-LTEL | : | - | mg/m ³ | - ppm |
| OES-STEL | : | 154 | mg/m ³ | 50 ppm |
| MAK | : | 310 | mg/m ³ | 100 ppm |
| TRK | : | | mg/m ³ | ppm |
| MAC-TGG 8 h | : | | mg/m ³ | |
| MAC-TGG 15 min. | : | 45 | mg/m ³ | |
| MAC-Ceiling | : | | mg/m ³ | |
| VME-8 h | : | - | mg/m ³ | - ppm |
| VLE-15 min. | : | 150 | mg/m ³ | 50 ppm |
| GWBB-8 h | : | 154 | mg/m ³ | 50 ppm |
| GWK-15 min. | : | - | mg/m ³ | - ppm |
| Momentary value | : | M | mg/m ³ | M ppm |

n-BUTYL METHACRYLATE, inhibited:

| | | | | |
|-----------------|---|----|--|-------------------|
| MAC-TGG 8 h | : | 59 | | mg/m ³ |
| MAC-TGG 15 min. | : | | | mg/m ³ |
| MAC-Ceiling | : | | | mg/m ³ |

METHYL METHACRYLATE:

| | | | | | |
|-----------------|---|-----|-------------------|-----|-----|
| TLV-TWA | : | | mg/m ³ | 50 | |
| TLV-STEL | : | | mg/m ³ | 100 | ppm |
| TLV-Ceiling | : | | mg/m ³ | | ppm |
| | | | | | |
| OES-LTEL | : | 208 | mg/m ³ | 50 | ppm |
| OES-STEL | : | 416 | mg/m ³ | 100 | ppm |
| | | | | | |
| MAK | : | 210 | mg/m ³ | 50 | ppm |
| TRK | : | | mg/m ³ | | ppm |
| | | | | | |
| MAC-TGG 8 h | : | 40 | mg/m ³ | | |
| MAC-TGG 15 min. | : | | mg/m ³ | | |
| MAC-Ceiling | : | | mg/m ³ | | |
| | | | | | |
| VME-8 h | : | 410 | mg/m ³ | 100 | ppm |
| VLE-15 min. | : | 820 | mg/m ³ | 200 | ppm |
| | | | | | |
| GWBB-8 h | : | 416 | mg/m ³ | 100 | ppm |
| GWK-15 min. | : | - | mg/m ³ | - | ppm |
| Momentary value | : | | mg/m ³ | | 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 of type A

8.3.2 hand protection:

- Chemically resistant gloves

8.3.3 eye protection:

- Safety glasses

8.3.4 skin protection:

- Suitable protective clothing

9. Physical and chemical properties

9.1 General information:

| | |
|----------------------|--------------|
| Appearance (at 20°C) | : Liquid |
| Odour | : Solvent |
| Colour | : Colourless |

9.2 Important health, safety and environmental information:

| | | |
|---------------------------------------|---------------------|------|
| pH value | : N.D. | |
| Boiling point/boiling range | : N.D. | °C |
| Flashpoint | : 8 | °C |
| Explosion limits | : 1.2 - 7 | vol% |
| Vapour pressure (at 20°C) | : 29 | hPa |
| Vapour pressure (at 50°C) | : 109 | hPa |
| Relative density (at 20°C) | : 0.9 | |
| Water solubility | : Insoluble | |
| Soluble in | : No data available | |
| Relative vapour density | : > 1 | |
| 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:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources, oxidizing agents

10.3 Hazardous decomposition products:

- Upon combustion CO and CO₂ are formed

11. Toxicological information

11.1 Acute toxicity:

TOLUENE:

| | | |
|---------------------|----------|----------|
| LD50 oral rat | : > 2000 | mg/kg |
| LD50 dermal rabbit | : N.D. | mg/kg |
| LD50 dermal rabbit | : 12223 | mg/kg |
| LC50 inhalation rat | : > 20 | mg/l/4 h |
| LC50 inhalation rat | : N.D. | ppm/4 h |

BUTANOL:

| | | |
|---------------------|--------|----------|
| LD50 oral rat | : 790 | mg/kg |
| LD50 dermal rabbit | : N.D. | mg/kg |
| LD50 dermal rabbit | : 3400 | mg/kg |
| LC50 inhalation rat | : 25 | mg/l/4 h |
| LC50 inhalation rat | : 8000 | ppm/4 h |

n-BUTYL METHACRYLATE, inhibited:

| | | |
|---------------------|-----------|----------|
| LD50 oral rat | : > 10000 | mg/kg |
| LD50 dermal rabbit | : N.D. | mg/kg |
| LD50 dermal rabbit | : > 10000 | mg/kg |
| LC50 inhalation rat | : 29 | mg/l/4 h |
| LC50 inhalation rat | : 4910 | ppm/4 h |

METHYL METHACRYLATE:

| | | |
|---------------------|----------|----------|
| LD50 oral rat | : > 6000 | mg/kg |
| LD50 dermal rabbit | : N.D. | mg/kg |
| LD50 dermal rabbit | : > 7550 | mg/kg |
| LC50 inhalation rat | : 27.5 | mg/l/4 h |
| LC50 inhalation rat | : 7093 | ppm/4 h |

11.2 Chronic toxicity:

TOLUENE:

| | |
|------------------------|--------------|
| EC carc. cat. | : not listed |
| EC muta. cat. | : not listed |
| EC repr. cat. | : 3 |
| 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) | : C |
| IARC classification | : 3 |

BUTANOL:

| | |
|-----------------------|--------------|
| Carcinogenicity (MAK) | : not listed |
| Mutagenicity (MAK) | : not listed |
| Teratogenicity (MAK) | : C |
| IARC classification | : not listed |

METHYL METHACRYLATE

| | |
|------------------------|--------------|
| 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) | : C |
| IARC classification | : 3 |

Primer 150

11.3 Routes of exposure: ingestion, inhalation, eye and skin
Caution! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

AFTER INHALATION:

EXPOSURE TO HIGH CONCENTRATIONS:

- Feeling of weakness
- CNS depression
- Headache
- Nausea
- Dizziness
- Narcosis
- Mental confusion
- Drunkenness
- Coordination disorders
- Disturbances of consciousness

AFTER INGESTION:

- Risk of aspiration pneumonia
- Nausea
- Abdominal pain
- Symptoms similar to those listed under inhalation

AFTER SKIN CONTACT:

- Red skin
- Tingling/irritation of the skin

AFTER EYE CONTACT:

- Irritation of the eye tissue

11.5 Chronic effects:

- Prolonged exposure: danger of damage to health through inhalation
- Causes damage to the central nervous system
- Possibly hazardous to the fetus
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)

ON CONTINUOUS EXPOSURE/CONTACT:

- Dry skin
- Skin rash/inflammation
- Impairment of the nervous system
- Impaired memory
- Impaired concentration
- Brain affection
- Change in the haemogramme/blood composition

12. Ecological information

12.1 Ecotoxicity:

TOLUENE:

- LC50 (96 h) : 24 mg/l (SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 11.5/19.6 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 12.5 mg/l (SELENASTRUM CAPRICORNUTUM)

BUTANOL:

- LC50 (96 h) : 1730 mg/l (PIMEPHALES PROMELAS)
- EC50 (48 h) : 1983 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 8500 mg/l (ALGAE)

n-BUTYL METHACRYLATE, inhibited:

- LC50 (96 h) : 11 mg/l (PIMEPHALES PROMELAS)
- EC50 (48 h) : 32 mg/l (DAPHNIA MAGNA)
- EC50 (96 h) : 57 mg/l (SELENASTRUM CAPRICORNUTUM)

METHYL METHACRYLATE:

- LC50 (96 h) : 130 mg/l (PIMEPHALES PROMELAS)
- EC50 (48 h) : 69 mg/l (DAPHNIA MAGNA)
- EC50 (96 h) : 170 mg/l (SELENASTRUM CAPRICORNUTUM)

12.2 Mobility:

- Volatile organic compounds (VOC): 86%
- Insoluble in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- biodegradation BOD₅ : 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 : 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 01 11* (waste paint and varnish containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Recycle/reuse
- Incinerate under surveillance
- 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

| |
|------|
| 33 |
| 1993 |

14.1 Classification of the substance in compliance with UN Recommendations

UN number : 1993
 CLASS : 3
 SUB RISKS : -
 PACKING : II
 PROPER SHIPPING NAME :
 UN 1993, Flammable liquid, n.o.s., Special provision 640D (toluene)

14.2 ADR (transport by road)

CLASS : 3
 PACKING : II
 CLASSIFICATION CODE :
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3

14.3 RID (transport by rail)

CLASS : 3
 PACKING : II
 CLASSIFICATION CODE :
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3

14.4 ADNR (transport by inland waterways)

CLASS : 3
 PACKING : II
 CLASSIFICATION CODE :
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3

14.5 IMDG (maritime transport)

CLASS : 3
 SUB RISKS : -
 PACKING : II
 MFG : -
 EMS : F-E, S-E
 MARINE POLLUTANT : -

14.6 ICAO (air transport)

CLASS : 3
 SUB RISKS : -
 PACKING : II
 PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 305/Y305
 PACKING INSTRUCTIONS CARGO AIRCRAFT : 307

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 1993'
 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



Highly flammable



Harmful

Contains:

toluene

- | | | |
|--------|---|--|
| R38 | : | Irritating to skin |
| R48/20 | : | Harmful: danger of serious damage to health by prolonged exposure through inhalation |
| R63 | : | Possible risk of harm to the unborn child |
| R65 | : | Harmful: may cause lung damage if swallowed |
| R67 | : | Vapours may cause drowsiness and dizziness |
| | | |
| S(02) | : | (Keep out of reach of children) |
| S36/37 | : | Wear suitable protective clothing and gloves |
| S(62) | : | (If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label) |

Contains: methyl methacrylate and n-butyl methacrylate.
May produce an allergic reaction.

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 | (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 2005

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

R10 : Flammable
R11 : Highly flammable
R22 : Harmful if swallowed
R36/37/38 : Irritating to eyes, respiratory system and skin
R37/38 : Irritating to respiratory system and skin
R38 : Irritating to skin
R41 : Risk of serious damage to eyes
R43 : May cause sensitization by skin contact
R48/20 : Harmful: danger of serious damage to health by prolonged exposure through inhalation
R63 : Possible risk of harm to the unborn child
R65 : Harmful: may cause lung damage if swallowed