

Surface Cleaner**1. Identification of the substance/preparation and of the company/undertaking**

- 1.1 Identification of the substance or preparation:**
Productname: Surface Cleaner
- 1.2 Use of the substance or the preparation:**
Cleansing agent
- 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 No. | Conc. in % | Hazard symbol | Risks (R-phrases) |
|---|-------------------------|---------------|------------------|---|
| low boiling point hydrogen treated naphtha (conc. benzene < 0.1%) | 64742-49-0 265-151-9 | >25 | F;Xn;N | 11-51/53-65-66 (1) (Labelling in compliance with CONCAWE) |
| ethyl acetate | 141-78-6 205-500-4 | 1 - <20 | F;Xi | 11-36-66-67 (1) |

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

3. Hazards identification

- Highly flammable
- Harmful: may cause lung damage if swallowed
- Repeated exposure may cause skin dryness or cracking
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Surface Cleaner

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:**
- Solid water jet ineffective as extinguishing medium
- 5.3 Special exposure hazards:**
- On burning: release of toxic and corrosive gases/vapours nitrous vapours, carbon monoxide and carbon dioxide
 - Gas/vapour spreads at floor level: ignition hazard
 - May build up electrostatic charges: risk of ignition
- 5.4 Instructions:**
- Dilute toxic gases with water spray
- 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 8.2/13
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
- 6.3 Methods of cleaning up:**
- Liquid spill: take up into noncombustible absorbent material e.g.: sand/earth
 - Take collected spill to competent authority
 - Wash clothing and equipment after handling

Surface Cleaner

7. Handling and storage

7.1 Handling:

- In case of insufficient ventilation: observe strict hygiene
- In case of insufficient ventilation: keep naked flames/sparks away
- 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, acids, bases

| | | |
|-------------------------|----------|------|
| Storage temperature | : 3 - 25 | °C |
| 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:

ETHYL ACETATE:

| | | | | |
|-----------------|--------|-------------------|-----|-----|
| TLV-TWA | : - | mg/m ³ | 400 | ppm |
| TLV-STEL | : - | mg/m ³ | - | ppm |
| TLV-Ceiling | : - | mg/m ³ | - | ppm |
| OES-LTEL | : - | mg/m ³ | 200 | ppm |
| OES-STEL | : - | mg/m ³ | 400 | ppm |
| MAK | : 1500 | mg/m ³ | 400 | ppm |
| TRK | : - | mg/m ³ | - | ppm |
| MAC-TGG 8 h | : 550 | mg/m ³ | | |
| MAC-TGG 15 min. | : 1100 | mg/m ³ | | |
| MAC-Ceiling | : - | mg/m ³ | | |
| VME-8 h | : 1400 | mg/m ³ | 400 | ppm |
| VLE-15 min. | : - | mg/m ³ | - | ppm |
| GWBB-8 h | : 1461 | mg/m ³ | 400 | 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 |

Surface Cleaner

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:

- Gloves suitable materials: GIVE GOOD RESISTANCE:
PVC
Rubber

8.3.3 eye protection:

- Safety glasses

8.3.4 skin protection:

- Protective clothing suitable materials: GIVE GOOD RESISTANCE:
PVC
Rubber

9. Physical and chemical properties

9.1 General information:

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

9.2 Important health, safety and environmental information:

| | | |
|---------------------------------------|----------------------|------|
| pH value | : N.D. | |
| Boiling point/boiling range | : 77 - 138 | °C |
| Flashpoint | : 3 | °C |
| Explosion limits | : 0.6 - 12 | Vol% |
| Vapour pressure (at 20°C) | : N.D. | hPa |
| Vapour pressure (at 50°C) | : < 1100 | hPa |
| Relative density (at 20°C) | : 0.75 | |
| Water solubility | : insoluble in water | |
| Soluble in | : N.D. | |
| Relative vapour density | : 3.0 | |
| 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 | : 220 | °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, acids, bases

10.3 Hazardous decomposition products:

- On burning: release of toxic and corrosive gases/vapours nitrous vapours, carbon monoxide and carbon dioxide
- Reacts violently with (strong) oxidizers and with (some) acids/bases

11. Toxicological information

11.1 Acute toxicity:

ETHYL ACETATE:

| | | |
|---------------------|-----------|----------|
| LD50 oral rat | : 5620 | mg/kg |
| LD50 dermal rabbit | : N.D. | mg/kg |
| LD50 dermal rabbit | : > 18000 | mg/kg |
| LC50 inhalation rat | : N.D. | mg/l/4 h |
| LC50 inhalation rat | : N.D. | ppm/4 h |

11.2 Chronic toxicity:

ETHYL ACETATE:

| | |
|------------------------|--------------|
| 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) | : Group C |
| IARC classification | : not listed |

11.3 Routes of exposure:

ingestion, inhalation, eye and skin
Warning! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

AFTER INHALATION:

- Coughing
- Dizziness
- Headache
- Nausea

EXPOSURE TO HIGH CONCENTRATIONS:

- CNS depression
- Feeling of weakness
- Narcosis

AFTER INGESTION:

- Risk of aspiration pneumonia
- Irritation of the gastric/intestinal mucosa
- Symptoms similar to those listed under inhalation

AFTER ABSORPTION OF HIGH QUANTITIES:

- Enlargement/affection of the liver
- Affection of the renal tissue

AFTER SKIN CONTACT:

ON CONTINUOUS EXPOSURE/CONTACT:

- Dry skin
- Cracking of the skin

AFTER EYE CONTACT:

- Redness of the eye tissue
- Visual disturbances

11.5 Chronic effects:

ON CONTINUOUS EXPOSURE/CONTACT:

- Dry skin
- Skin rash/inflammation

Surface Cleaner

12. Ecological information

12.1 Ecotoxicity:

ETHYL ACETATE:

- LC50 (96 h) : 454.7 mg/l (SALMO GAIRDNERI/ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 154 mg/l (DAPHNIA MAGNA)
- EC50 (48 h) : 3300 mg/l (SCENEDESMUS SUBSPICATUS)

12.2 Mobility:

- Volatile organic compounds (VOC): 100 %
- Insoluble in water
- Substance floats 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 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): 13 07 03* (other fuels (including mixtures))
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Incinerate under surveillance
- Substance must not be discharged into the sewer
- 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

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 (low boiling point hydrogen treated naphtha)

14.2 ADR (transport by road)

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

14.3 RID (transport by rail)

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

14.4 ADNR (transport by inland waterways)

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

14.5 IMDG (maritime transport)

CLASS : 3
 SUB RISKS : -
 PACKING : II
 MFAG : -
 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'

Surface Cleaner

15. Regulatory information

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



Highly flammable



Harmful



Dangerous for the environment

- R51/53 : Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
- R65 : Harmful: may cause lung damage if swallowed
- R66 : Repeated exposure may cause skin dryness or cracking
-
- S(02) : (Keep out of reach of children)
- S09 : Store in a well-ventilated area
- S16 : Keep away from sources of ignition - No smoking
- S23 : Do not breathe vapour
- S24 : Avoid contact with skin
- S33 : Take precautionary measures against static discharges
- S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.
- S(62) : (If swallowed, do not induce vomiting. seek medical advice immediately and show this container or label.)

Surface Cleaner

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 USA
OES : Occupational Exposure Standards - United Kingdom
MEL : Maximum Exposure Limits - United Kingdom
MAK : Maximale Arbeitsplatzkonzentrationen - Germany
TRK : Technische Richtkonzentrationen - 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

| | | | | |
|------------|------------------|--------------|-------------------|------------|
| 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 2000

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

R11 : Highly flammable
R36 : Irritant to the eyes
R51/53 : Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R65 : Harmful: may cause lung damage if swallowed
R66 : Repeated exposure may cause skin dryness or cracking
R67 : Vapours may cause drowsiness and dizziness