

Standard Solvent Cleaner**1. Identification of the substance/preparation and of the company/undertaking****1.1 Identification of the substance or preparation:**

Product name : Standard Solvent Cleaner

1.2 Use of the substance/preparation:

- Detergent

1.3 Company/undertaking identification:

SODAL N.V.
Everdongenlaan 18-20
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1.4 Emergency telephone:

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Technische Schoolstraat 43A, B-2440 Geel, Belgium

2. Hazards identification

- Highly flammable
- Irritating to skin
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- Harmful: may cause lung damage if swallowed
- Vapours may cause drowsiness and dizziness

3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. (%)	Hazards (R-phrases)	Hazard symbol
n-butyl acetate	123-86-4 204-658-1	>15	10-66-67 (1)	-
2-butoxyethanol	111-76-2 203-905-0	1 - <20	20/21/22-36/38 (1)	Xn
ethanol	64-17-5 200-578-6	<30	11 (1)	F
low boiling point hydrogen treated naphtha (conc. benzene < 0.1%)	64742-49-0 265-151-9	<50	12-38-51/53-65 (1) (Labelling in compliance with CONCAWE)	F+;Xn;N
low boiling point hydrogen treated naphtha (conc. benzene < 0.1%)	64742-82-1 265-185-4	1 - <20	10-51/53-65 (1) (Labelling in compliance with CONCAWE)	Xn;N

(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 problems: consult a doctor/medical service
- 4.2 Skin contact:**
- Wash immediately with lots of water
 - Take victim to a doctor if irritation persists
- 4.3 Eye contact:**
- Rinse immediately with plenty of water
 - Take victim to an ophthalmologist if irritation persists
- 4.4 After ingestion:**
- Rinse mouth with water
 - Immediately give lots of water to drink
 - Do not induce vomiting
 - Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Polyvalent foam
 - Alcohol-resistant foam
 - Polymer foam
 - BC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- Solid water jet ineffective as extinguishing medium
- 5.3 Special exposure hazards:**
- Gas/vapour spreads at floor level: ignition hazard
 - Gas/vapour flammable with air within explosion limits
 - Upon combustion CO and CO₂ are formed
- 5.4 Instructions:**
- If exposed to fire cool the closed containers by spraying with water
 - 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 precautions:**
- See heading 8.2/13
- 6.2 Environmental precautions:**
- Prevent soil and water pollution
 - Prevent spreading in sewers
 - Contain leaking substance
 - Dam up the liquid spill
 - Try to reduce evaporation
- 6.3 Methods for cleaning up:**
- Take up liquid spill into absorbent material, e.g.: sand/earth
 - Scoop absorbed substance into closing containers
 - Carefully collect the spill/leftovers
 - Clean contaminated surfaces with an excess of water
 - Take collected spill to manufacturer/competent authority
 - Wash clothing and equipment after handling

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7. Handling and storage

7.1 Handling:

- Insufficient ventilation: observe normal hygiene standards
- 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 at room temperature
- Keep out of direct sunlight
- Limited time of storage
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

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

- suitable : HDPE

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:

N-BUTYL ACETATE:

TLV-TWA	:		mg/m ³	150	ppm
TLV-STEL	:		mg/m ³	200	ppm
WEL-LTEL	:	724	mg/m ³	150	ppm
WEL-STEL	:	966	mg/m ³	200	ppm
MAK	:	480	mg/m ³	100	ppm
MAC-TGG 8 h	:	480	mg/m ³		
VME-8 h	:	710	mg/m ³	150	ppm
VLE-15 min.	:	940	mg/m ³	200	ppm
GWBB-8 h	:	723	mg/m ³	150	ppm
GWK-15 min.	:	964	mg/m ³	200	ppm

2-BUTOXYETHANOL:

TLV-TWA	:		mg/m ³	20	ppm
TLV-STEL	:		mg/m ³	-	ppm
WEL-LTEL	:	-	mg/m ³	25	ppm
WEL-STEL	:	-	mg/m ³	50	ppm
TRGS 900	:	98	mg/m ³	20	ppm
MAK	:	98	mg/m ³	20	ppm
MAC-TGG 8 h	:	100	mg/m ³		
MAC-TGG 15 min.	:	246	mg/m ³		
VME-8 h	:	9.8	mg/m ³	2	ppm
VLE-15 min.	:	147.6	mg/m ³	30	ppm
GWBB-8 h	:	98	mg/m ³	20	ppm
GWK-15 min.	:	246	mg/m ³	50	ppm
EC	:	98	mg/m ³	20	ppm
EC-STEL	:	246	mg/m ³	50	ppm

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ETHANOL:

TLV-TWA	:	mg/m³	(1000)	ppm
TLV-STEL	:	mg/m³	(-)	ppm
WEL-LTEL	:	mg/m³	1000	ppm
WEL-STEL	:	mg/m³	-	ppm
TRGS 900	:	mg/m³	500	ppm
MAK	:	mg/m³	500	ppm
MAC-TGG 8 h	:	mg/m³		
VME-8 h	:	mg/m³	1000	ppm
VLE-15 min.	:	mg/m³	5000	ppm
GWBB-8 h	:	mg/m³	1000	ppm
GWK-15 min.	:	mg/m³	-	ppm

8.1.2 Sampling methods:

- Petroleum Distillate (Naphthas)	NIOSH 1550
- Petroleum Distillates (Naphtha)	OSHA 48
- n-Butyl Acetate (Esters I)	NIOSH 1450
- n-Butyl Acetate	OSHA 7
- 2-Butoxyethanol (Alcohols IV)	NIOSH 1403
2-Butoxyethanol (Butyl Cellosolve solvent)	OSHA 83
Ethyl Alcohol (Ethanol)(Alcohols I)	NIOSH 1400
Ethyl Alcohol (Ethanol)	OSHA 7
Ethyl Alcohol (Ethanol)	OSHA 100

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

Personal protective equipment:

a) Respiratory protection:

- Wear gas mask with filter type A if conc. in air > exposure limit

b) Hand protection:

- Gloves

c) Eye protection:

- Protective goggles

d) Skin protection:

- Head/neck protection
- Protective clothing

8.2.2 Environmental exposure controls: see headings 6.2, 6.3 and 13

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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 : N.D. °C
Flash point/flammability : 12 °C
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) : 0.80
Water solubility : N.D. g/100 ml
Soluble in : No data available
Relative vapour density : N.D.
Viscosity (at °C) : N.D. Pa.s
Partition coefficient n-octanol/water : N.D.
Evaporation rate : N.D.
ratio to butyl acetate : N.D.
ratio to ether : N.D.

9.3 Other information:

Melting point/melting range : N.D. °C
Auto-ignition temperature : N.D. °C
Saturation concentration : N.D. g/m³
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, oxidizing agents, acids

10.3 Hazardous decomposition products:

- Upon combustion CO and CO₂ are formed

11. Toxicological information

11.1 Acute toxicity:

N-BUTYL ACETATE:

LD50 oral rat : 10770 mg/kg
LD50 dermal rabbit : > 17600 mg/kg

2-BUTOXYETHANOL:

LD50 oral rat : 530 mg/kg

ETHANOL:

LD50 oral rat : 7060 mg/kg
LD50 dermal rabbit : > 16000 mg/kg
LC50 inhalation rat : > 20 mg/l/4 h

11.2 Chronic toxicity:

N-BUTYL ACETATE:

Teratogenicity (MAK) : C

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2-BUTOXYETHANOL:

Carcinogenicity (TLV) : A3
Teratogenicity (MAK) : C

IARC classification : 3

ETHANOL:

Carcinogenicity (TLV) : (A4)
Carcinogenicity (MAC) : K

Carcinogenicity (MAK) : 5
Mutagenicity (MAK) : 5
Teratogenicity (MAK) : C

IARC classification : 1*

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

11.4 Acute effects/symptoms:

- **AFTER INHALATION:**
- CNS depression
- Nausea
- Headache
- Dizziness
- Feeling of weakness
- Disturbances of consciousness
- **AFTER INGESTION:**
- Risk of aspiration pneumonia
- **AFTER SKIN CONTACT:**
- Tingling/irritation of the skin
- **AFTER EYE CONTACT:**
- Irritation of the eye tissue
- Redness of the eye tissue

11.5 Chronic effects:

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

12. Ecological information

12.1 Ecotoxicity:

N-BUTYL ACETATE:

- LC50 (96 h) : 62 mg/l (BRACHYDANIO RERIO)
- EC50 (24 h) : 24/205 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 675 mg/l (SCENEDESMUS SUBSPICATUS)

2-BUTOXYETHANOL:

- LC50 (96 h) : 1341 ppm (LEPOMIS MACROCHIRUS)
- EC50 (24 h) : 1720 mg/l (DAPHNIA MAGNA)

ETHANOL:

- LC50 (96 h) : 13000 mg/l (SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 9300 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 5000 mg/l (ALGAE)

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

12.2 Mobility:

- **Volatile organic compounds (VOC):** 70%
- Substance floats in water

For other physicochemical properties see heading 9

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12.3 Persistence and degradability:

- biodegradation BOD₅ : N.D. % ThOD
- water :
 - Biodegradable in water
 - Adsorbs into the soil
- soil : N.D. days

12.4 Bioaccumulative potential:

- log P_{ow} : N.D.
- BCF : N.D.
- Not bioaccumulative

12.5 Results of PBT assessment:

- Not applicable, based on available data

12.6 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

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): 07 06 04* (other organic solvents, washing liquids and mother liquors)
- LWCA (the Netherlands): KGA category 03
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste
- Do not discharge into surface water

13.3 Packaging/Container:

- 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 : 1993
 CLASS : 3
 SUB RISKS : -
 PACKING GROUP : II

14.2 ADR (transport by road)

CLASS : 3
 PACKING GROUP : II
 CLASSIFICATION CODE : F1
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3
 PROPER SHIPPING NAME :
 Flammable liquid, n.o.s. (low boiling point hydrogen treated naphtha)

14.3 RID (transport by rail)

CLASS : 3
 PACKING GROUP : II
 CLASSIFICATION CODE : F1
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3
 PROPER SHIPPING NAME :
 Flammable liquid, n.o.s. (low boiling point hydrogen treated naphtha)

14.4 ADNR (transport by inland waterways)

CLASS : 3
 PACKING GROUP : II
 CLASSIFICATION CODE : F1
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3

14.5 IMDG (maritime transport)

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

14.6 ICAO (air transport)

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

14.7 Special precautions : Transport in tanks: not applicable

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

15.1 EU legislation:

Classification according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC



Highly flammable



Harmful



Dangerous for the environment

contains: low boiling point hydrogen treated naphtha

R38	:	Irritating to skin
R51/53	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	:	Harmful: may cause lung damage if swallowed
R67	:	Vapours may cause drowsiness and dizziness
S(02)	:	(Keep out of reach of children)
S16	:	Keep away from sources of ignition - No smoking
S33	:	Take precautionary measures against static discharges
S43	:	In case of fire, use powder extinguisher
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)

15.2 National provisions:

The Netherlands:

Waterbezwaarlijkheid: 6

Germany:

WGK : 2 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

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 USA
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

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

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

R10 : Flammable
R11 : Highly flammable
R12 : Extremely flammable
R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed
R36/38 : Irritating to eyes and skin
R38 : Irritating to skin
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