

## Cleaner &amp; Degreaser

## 1. Identification of the substance/preparation and of the company/undertaking

## 1.1 Identification of the substance or preparation:

Product name : Cleaner & Degreaser

## 1.2 Use of the substance/preparation:

Detergent  
Degreasing 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  
e-mail address: msds@soudal.com

## 1.4 Emergency telephone:

+32 14 58 45 45 (24/24 h)  
Brandweerinformatiecentrum voor Gevaarlijke Stoffen (BIG)  
Technische Schoolstraat 43 A, 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
- Vapours may cause drowsiness and dizziness
- Aerosol may explode under the effect of heat

## 3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. (%)	Hazards (R-phrases)	Hazard symbol
propan-2-ol	67-63-0 200-661-7	1 - <20	11-36-67 (1)(2)	F+Xi
xylene, mixture of isomers	1330-20-7 215-535-7	1 - 20	10-20/21-38 (1)(2)	Xn
low boiling point hydrogen treated naphtha (conc benzene < 0.1%)	64742-49-0 265-151-9	>20	11-38-51/53-65-67 (1) (Labelling in compliance with CONCAWE)	F+Xn;N
carbon dioxide, liquefied, under pressure	124-38-9 204-696-9	1 - 5	- (2)	-

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

(2) Substance with a Community workplace exposure limit

(3) PBT-substance

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1/9

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# Cleaner & Degreaser

## 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
  - Do not induce vomiting
  - If you feel unwell: consult a doctor/medical service

## 5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Water spray
  - 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
  - Upon combustion CO and CO<sub>2</sub> are formed
- 5.4 Instructions:**
- Cool closed containers with water if they are exposed to the fire
  - Take account of environmentally hazardous fire-fighting water
  - Use fire-fighting water moderately and contain it
- 5.5 Special protective equipment for firefighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
  - Protective clothing

## 6. Accidental release measures

- 6.1 Personal precautions:**
- See heading 8.2
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
  - Dam up the liquid spill
  - See heading 13
- 6.3 Methods for cleaning up:**
- Liquid spill: take up into absorbent material
  - Shovel absorbed substance in closing drums
  - 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

# Cleaner & Degreaser

## 7. Handling and storage

### 7.1 Handling:

- Observe normal hygiene standards
- Use spark-/explosionproof appliances and lighting system
- Remove contaminated clothing immediately
- Clean contaminated clothing
- Use only in well-ventilated areas

### 7.2 Storage:

- Keep out of direct sunlight
- Ventilation at floor level
- Fireproof storeroom
- Keep away from: heat sources, ignition sources

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:

PROPAN-2-OL:

TLV-TWA	:	mg/m <sup>3</sup>	200	ppm
TLV-STEL	:	mg/m <sup>3</sup>	400	ppm
WEL-LTEL	:	mg/m <sup>3</sup>	400	ppm
WEL-STEL	:	mg/m <sup>3</sup>	500	ppm
TRGS 900	:	mg/m <sup>3</sup>	200	ppm
MAK	:	mg/m <sup>3</sup>	200	ppm
GWBNL-TGG 8 h	:	mg/m <sup>3</sup>	(indicatief)	
VME-8 h	:	mg/m <sup>3</sup>	-	ppm
VLE-15 min.	:	mg/m <sup>3</sup>	400	ppm
GWBB-8 h	:	mg/m <sup>3</sup>	400	ppm
GWK-15 min.	:	mg/m <sup>3</sup>	500	ppm

XYLENE, MIXTURE OF ISOMERS:

TLV-TWA	:	mg/m <sup>3</sup>	100	ppm
TLV-STEL	:	mg/m <sup>3</sup>	150	ppm
WEL-LTEL	:	mg/m <sup>3</sup>	50	ppm
WEL-STEL	:	mg/m <sup>3</sup>	100	ppm
TRGS 900	:	mg/m <sup>3</sup>	100	ppm
MAK	:	mg/m <sup>3</sup>	100	ppm
GWBNL-TGG 8 h	:	mg/m <sup>3</sup>	(wettelijk)	
GWKNL-TGG 15 min.	:	mg/m <sup>3</sup>		
VME-8 h	:	mg/m <sup>3</sup>	50	ppm
VLE-15 min.	:	mg/m <sup>3</sup>	100	ppm
GWBB-8 h	:	mg/m <sup>3</sup>	50	ppm
GWK-15 min.	:	mg/m <sup>3</sup>	100	ppm
EC	:	mg/m <sup>3</sup>	50	ppm
EC-STEL	:	mg/m <sup>3</sup>	100	ppm

# Cleaner & Degreaser

CARBON DIOXIDE, LIQUEFIED, UNDER PRESSURE:

TLV-TWA	:	mg/m <sup>3</sup>	5000	ppm
TLV-STEL	:	mg/m <sup>3</sup>	30000	ppm
WEL-LTEL	:	mg/m <sup>3</sup>	5000	ppm
WEL-STEL	:	mg/m <sup>3</sup>	15000	ppm
TRGS 900	:	mg/m <sup>3</sup>	5000	ppm
MAK	:	mg/m <sup>3</sup>	5000	ppm
GWBNL-TGG 8 h	:	mg/m <sup>3</sup>	(wettelijk)	
VME-8 h	:	mg/m <sup>3</sup>	5000	ppm
VLE-15 min.	:	mg/m <sup>3</sup>	-	ppm
GWBB-8 h	:	mg/m <sup>3</sup>	5000	ppm
GWK-15 min.	:	mg/m <sup>3</sup>	30000	ppm
EC	:	mg/m <sup>3</sup>	5000	ppm
EC-STEL	:	mg/m <sup>3</sup>	-	ppm

## 8.1.2 Sampling methods:

- Petroleum Distillate (Naphthas)	NIOSH 1550
- Petroleum Distillates fractions	OSHA 48
- Carbon Dioxide	NIOSH 6603
- Carbon Dioxide	OSHA ID 172
- Isopropyl Alcohol (Alcohols I)	NIOSH 1400
- Isopropyl Alcohol	OSHA 7
- Isopropyl Alcohol	OSHA 109
- Xylene (Hydrocarbons, aromatic)	NIOSH 1501
- Xylene (o-, m-, & p-isomers)	OSHA 7

## 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:

- Head/neck protection
- Protective clothing

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

# Cleaner & Degreaser

## 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/flammability : Contains flammable components  
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 liquid phase (20°C) : 0.78  
Water solubility : Insoluble  
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 :  
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

### 10.3 Hazardous decomposition products:

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

## 11. Toxicological information

### 11.1 Acute toxicity:

PROPAN-2-OL:

LD50 oral rat : > 2000 mg/kg  
LD50 dermal rabbit : 12870 mg/kg  
LC50 inhalation rat : 73 mg/l/4 h  
LC50 inhalation rat : 29535 ppm/4 h

XYLENE, MIXTURE OF ISOMERS:

LD50 oral rat : > 3608 mg/kg

### 11.2 Chronic toxicity:

PROPAN-2-OL:

Carcinogenicity (TLV) : A4  
Teratogenicity (MAK) : Group C  
IARC classification : 3

## Cleaner & Degreaser

XYLENE, MIXTURE OF ISOMERS:

**Carcinogenicity (TLV)** : A4  
**Teratogenicity (MAK)** : Group D  
**IARC classification** : 3

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

**11.4 Acute effects/symptoms:**

- **AFTER INHALATION:**
- EXPOSURE TO HIGH CONCENTRATIONS:
- CNS depression
- Headache
- Dizziness
- Narcosis
- Feeling of weakness
  
- **AFTER SKIN CONTACT:**
- Tingling/irritation of the skin
  
- **AFTER EYE CONTACT:**
- Irritation of the eye tissue

**11.5 Chronic effects:**

- Contains a substance which (possibly) impairs fertility
- Contains substance of group C (MAK-Schwangerschaftsgruppe)
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)

## 12. Ecological information

**12.1 Ecotoxicity:**

PROPAN-2-OL:

- LC50 (96 h) : 9640 mg/l (PIMEPHALES PROMELAS)
- EC50 (48 h) : 13299 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : >1000 mg/l (SCENEDESMUS SUBSPICATUS)

XYLENE, MIXTURE OF ISOMERS:

- LC50 (96 h) : 3.77 mg/l (SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 7.4 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 10 mg/l (SKELETONEMA COSTATUM)

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

**12.2 Mobility:**

- **Volatile organic compounds (VOC):** 97%
- Insoluble in water
- Substance floats in water

For other physicochemical properties see heading 9

**12.3 Persistence and degradability:**

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

**12.4 Bioaccumulative potential:**

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

## Cleaner & Degreaser

### 12.5 Results of PBT assessment:

- Not applicable, on the basis of the 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): 14 06 03\* (other solvents and solvent mixtures)
- LWCA (the Netherlands): KGA category 06
- Hazardous waste (91/689/EEC)
- Remove waste in accordance with local and/or national regulations

### 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 :  
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 :  
CLASSIFICATION CODE : 5F  
DANGER LABEL TANKS : -  
DANGER LABEL PACKAGES : 2.1  
PROPER SHIPPING NAME :  
aerosols

### 14.4 ADNR (transport by inland waterways)

CLASS : 2  
PACKING GROUP :  
CLASSIFICATION CODE : 5F  
DANGER LABEL TANKS : -  
DANGER LABEL PACKAGES : 2.1

## Cleaner & Degreaser

<b>14.5</b>	<b>IMDG (maritime transport)</b>	
	CLASS	: 2.1
	SUB RISKS	: -
	PACKING GROUP	: -
	MFAG	: -
	EMS	: F-D, S-U
	MARINE POLLUTANT	: P
<b>14.6</b>	<b>ICAO (air freight)</b>	
	CLASS	: 2.1
	SUB RISKS	: -
	PACKING GROUP	: -
	PACKING INSTRUCTIONS PASSENGER AIRCRAFT	: 203/Y203
	PACKING INSTRUCTIONS CARGO AIRCRAFT	: 203
<b>14.7</b>	<b>Special precautions</b>	: None
<b>14.8</b>	<b>Limited quantities (LQ)</b>	:

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



Highly flammable



Irritant



Dangerous for the environment

R38	:	Irritating to skin
R51/53	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R67	:	Vapours may cause drowsiness and dizziness
S23	:	Do not breathe spray
S(46)	:	(If swallowed, seek medical advice immediately and show this container or label)
S51	:	Use only in well-ventilated areas
S61	:	Avoid release to the environment. Refer to special instructions/safety data sheets

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: 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 US  
**WEL** : Workplace Exposure Limits - United Kingdom  
**TRGS 900** : Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany  
**MAK** : Maximale Arbeitsplatzkonzentrationen - Germany  
**GWBNL** : Grenswaarde voor blootstelling - the Netherlands  
**GWKNL** : Grenswaarde korte duur - 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

**I** : Inhalable fraction = **T** : Total dust = **E** : Einatembare 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:

R10 : Flammable  
R11 : Highly flammable  
R20/21 : Harmful by inhalation and in contact with skin  
R36 : Irritating to eyes  
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