

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)

**Trade name :** SWIN 70-102-6  
plastic cleaner  
**Revision date :** 02.08.2017  
**Print date :** 02.08.2017

**Version (Revision) :** 1.1.0 (1.0.2)

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking

#### 1.1 Product identifier

SWIN 70-102-6  
plastic cleaner (34611)  
PROPAN-2-OL ; CAS No. : 67-63-0 ; EC No. : 200-661-7 ; INDEX No. : 603-117-00-0 ; REACH registration No. : 01-2119457558-25

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses

Washing and cleaning products (including solvent based products)

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier (manufacturer/importer/only representative/downstream user/distributor)

SWIN Lacksysteme  
Inh. Ludwig Schöne e.K

**Street :** Boschweg 5

**Postal code/city :** D-48351 Everswinkel

**Telephone :** +49(0)2582/67613

**Telefax :** +49(0)258267677

**Information contact :** info@swinsysteme.de

#### 1.4 Emergency telephone number

Tel: +49 (0) 30 / 19 24 0 Giftzentrale Berlin

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.  
Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.  
STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

###### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

###### Signal word

Danger

###### Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

###### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P370+P378 In case of fire: Use foam to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to disposal.

### Additional information

P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards

Results of PBT and vPvB assessment :  
PBT: No data available  
vPvB: No data available

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

**Substance name :** PROPAN-2-OL  
**INDEX No. :** 603-117-00-0  
**EC No. :** 200-661-7  
**REACH No. :** 01-2119457558-25  
**CAS No. :** 67-63-0  
**Purity :** 100 % [mass]

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Observe risk of aspiration if vomiting occurs. If unconscious place in recovery position and seek medical advice. Remove contaminated, saturated clothing immediately.

#### Following inhalation

Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. Provide fresh air.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Dizziness Headache Nausea Impairment of vision Vomiting

### 4.3 Indication of any immediate medical attention and special treatment needed

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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alcohol resistant foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Water spray

### Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

#### For non-emergency personnel

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### For emergency responders

Use appropriate respiratory protection. Remove persons to safety. Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

### 6.4 Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Only use the material in places where open light, fire and other flammable sources can be kept away. Wear personal protection equipment (refer to section 8). Avoid: generation/formation of aerosols

#### Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Skin contact Eye contact Take precautionary measures against static discharges.

#### Measures to prevent fire

Keep away from sources of ignition. - No smoking. Usual measures for fire prevention. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks

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and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools. Wear anti-static footwear and clothing. Take precautionary measures against static discharges.

### Measures to prevent aerosol and dust generation

Vapours/aerosols must be exhausted directly at the point of origin. Use only in well-ventilated areas.

### Environmental precautions

Shafts and sewers must be protected from entry of the product.

## 7.2 Conditions for safe storage, including any incompatibilities

### Hints on joint storage

**Storage class (TRGS 510) :** 3

### Further information on storage conditions

Keep container tightly closed. Keep/Store only in original container.

## 7.3 Specific end use(s)

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 200 ppm / 500 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : Y

Version : 04.11.2017

#### Biological limit values

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TRGS 903 ( D )

Parameter : Acetone / Whole blood (B) / End of exposure or end of shift

Limit value : 50 mg/l

Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 ( D )

Parameter : Acetone / Urine (U) / End of exposure or end of shift

Limit value : 50 mg/l

Version : 31.03.2004

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type : DNEL worker (systemic)

Exposure route : Dermal

Limit value : 888 mg/kg

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Limit value : 500 mg/m<sup>3</sup>

##### PNEC

Limit value type : PNEC aquatic, freshwater

Limit value : 140,9 mg/l

Limit value type : PNEC aquatic, marine water

Limit value : 140,9 mg/l

Limit value type : PNEC sediment, freshwater

Limit value : 552 mg/kg

Limit value type : PNEC sediment, marine water

Limit value : 552 mg/kg

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### 8.2 Exposure controls



#### Personal protection equipment

##### Eye/face protection

Eye glasses with side protection

##### Skin protection

###### Hand protection

**Suitable material** : Butyl caoutchouc (butyl rubber)

Thickness of the glove material : 0,7 mm

Breakthrough time (maximum wearing time) : 480 min : 480 min

Recommended glove articles DIN EN 374

**Remark** : Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

###### Body protection

Overall

**Suitable protective clothing** : For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes Only wear fitting, comfortable and clean protective clothing.

**Required properties** : antistatic. flame-resistant heat-resistant

##### Respiratory protection

Appropriate engineering controls

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection necessary at: exceeding exposure limit values aerosol or mist formation. spray application

###### Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter:

Filter type: A

##### General health and safety measures

Wash hands before breaks and after work. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state** : liquid

**Odour** : characteristic

#### Appearance

**Colour** : colourless

#### Odour threshold

No data available

#### Safety relevant basis data

**Melting point/melting range** : No data available

**Initial boiling point and boiling range** : ( 1013 hPa ) 82 °C

**Decomposition temperature** : No data available

**Flash point** : 12 °C DIN 51755 part 1

**Ignition temperature** : 425 °C DIN 51794

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<b>Lower explosion limit :</b>		2	Vol-%	
<b>Upper explosion limit :</b>		12	Vol-%	
<b>Vapour pressure :</b>	( 20 °C )	43	hPa	
<b>Density :</b>	( 20 °C )	0,785	g/cm <sup>3</sup>	DIN 51757
<b>Water solubility :</b>	( 20 °C )		miscible	
<b>pH-value:</b>	( 20 °C )		not applicable	
<b>log P O/W :</b>			No data available	
<b>Cinematic viscosity :</b>	( 40 °C )		No data available	
<b>Relative vapour density :</b>	( 20 °C )		No data available	
<b>Vapourisation rate :</b>			No data available	
<b>Maximum VOC content (EC) :</b>		100	Wt %	1999/13/EC
<b>VOC-value :</b>		785	g/l	2004/42/EC
<b>Oxidising liquids :</b>		No data available.		
<b>Explosive properties :</b>		Not determined.		

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Exothermic reaction with:  
Alkali (lye). Acid Oxidising agent, strong.

### 10.6 Hazardous decomposition products

Gases/vapours, combustible

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter : LD50  
Exposure route : Oral  
Species : Rat  
Effective dose : 5840 mg/kg

##### STOT-single exposure

See section 2

##### Acute dermal toxicity

Parameter : LD50  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg

##### Acute inhalation toxicity

Parameter : LC50  
Exposure route : Inhalative (vapour)

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Species : Rat  
Effective dose : > 20 mg/l  
Exposure time : 8 h

### **Irritant and corrosive effects**

See section 2

### **Sensitisation**

See section 2

### **Repeated dose toxicity (subacute, subchronic, chronic)**

#### **Subacute oral toxicity**

##### **STOT-repeated exposure**

See section 2

### **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

#### **Carcinogenicity**

See section 2

#### **Germ cell mutagenicity**

See section 2

#### **Reproductive toxicity**

See section 2

### **Aspiration hazard**

See section 2

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Aquatic toxicity**

##### **Acute (short-term) fish toxicity**

Parameter : LC50  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 9640 mg/l  
Exposure time : 96 h

##### **Acute (short-term) daphnia toxicity**

Parameter : EC50  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 9714 mg/l  
Exposure time : 24 h

##### **Acute (short-term) algae toxicity**

Parameter : EC50  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h

### **12.2 Persistence and degradability**

No information available.

### **12.3 Bioaccumulative potential**

No information available.

### **12.4 Mobility in soil**

No information available.

### **12.5 Results of PBT and vPvB assessment**

No information available.

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### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

## SECTION 14: Transport information

### 14.1 UN number

UN 1219

### 14.2 UN proper shipping name

Land transport (ADR/RID)

ISOPROPANOL

Sea transport (IMDG)

ISOPROPANOL

Air transport (ICAO-TI / IATA-DGR)

ISOPROPANOL

### 14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 33  
Tunnel restriction code : D/E  
Special provisions : LQ 1 | E 2  
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / S-D  
Special provisions : LQ 1 | E 2  
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3  
Special provisions : E 2  
Hazard label(s) : 3

### 14.4 Packing group

II

### 14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

### 14.6 Special precautions for user

None

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable



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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### National regulations

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

##### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

#### 15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### 16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Label elements - Additional information

#### 16.2 Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
AGW = Arbeitsplatzgrenzwert  
ATE = Acute Toxicity Estimates  
DMEL = Derived Minimal Effect Levels  
DNEL = Derived No Effect Level  
H (8.2) = hautresorptiv (= absorbable through skin contact)  
IATA = International Air Transport Association  
IMDG = International Maritime Code for Dangerous Goods  
LC = Letalkonzentration  
LD50 = Lethal Dose, 50%  
MAK = Maximale Arbeitsplatzkonzentration  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
PBT = Persistent, bioaccumulative and toxic  
PNEC = Predicted No Effect Concentration  
RID = Règlement concernant le transport international ferroviaire des marchandises dangereuses  
RCP = reciprocal calculation procedure  
SVHC = Substances of Very high Concern  
STEL = Short-Time-Exposure Limit  
TWA = Time Weighted Average (= Zeitgewichteter Durchschnittsgrenzwert für Exposition)  
VOC = volatile organic compounds  
vPvB = very persistent and very bioaccumulative  
VwVwS = Verwaltungsvorschrift wassergefährdender Stoffe  
WGK = Wassergefährdungskategorie gem. Verwaltungsvorschrift wassergefährdender Stoffe-VwVwS Y (8.2) = Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet werden

#### 16.3 Key literature references and sources for data

None

#### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

#### 16.4 Relevant H- and EUH-phrases (Number and full text)

None

#### 16.5 Training advice

None

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### 16.6 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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