

**SAFETY DATA SHEET****Cleaner**

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 26.11.2012

Revision date 30.10.2019

**1.1. Product identifier**

Product name Cleaner

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

Use of the substance / preparation Cleaning agent.

**1.3. Details of the supplier of the safety data sheet**

Company name PLS Produkter AB (MultiClient)

Postal address Fjärrvärmevägen 2

Postcode S-54102

City SKÖVDE

Country Sverige

Telephone number 0046 500382080

Email [info@pls.nu](mailto:info@pls.nu)

Website [www.pls.nu](http://www.pls.nu)

Contact person Anders Larsson

**1.4. Emergency telephone number**

Emergency telephone Telephone number: +46104566700  
Description: Poison Information Center, Karolinska Hospital. See point 4: First aid

Telephone number: 112  
Description: In emergency situations

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

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

Eye Irrit. 2; H319

## 2.2. Label elements

### Hazard pictograms (CLP)



Composition on the label	1-Methoxy-2-propanol 5 -10 weight%, Ethanol 5 -10 weight%, Propan-2-ol 1 -5 weight%, Alcohols, C12-C14, ethoxylated < 2 weight%
Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.
Precautionary statements	P102 Keep out of reach of children. P280 Wear protective gloves / protective clothing / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention.

## 2.3. Other hazards

PBT / vPvB	No recommendation given.
Health effect	Causes serious eye irritation.
Environmental effects	This product does not contain any PBT or vPvB substances.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
1-Methoxy-2-propanol	CAS No.: 107-98-2 EC No.: 203-539-1 Index No.: 603-064-00-3	Flam. Liq. 3; H226 STOT SE3; H336	5 -10 weight%	
Ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5	Flam. Liq. 2; H225	5 -10 weight%	
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE3; H336	1 -5 weight%	
Alcohols, C12-C14, ethoxylated	CAS No.: 68439-50-9 EC No.: 932-106-6	H302 Acute tox. 4 H318 Eye Dam. 1	< 2 weight%	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	If medical advice is needed, have product container or label at hand.
Inhalation	Move into fresh air and keep at rest.
Skin contact	Wash skin with soap and water.
Eye contact	Rinse cautiously with water for several minutes. Contact physician if irritation persists.
Ingestion	Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Do not induce vomiting.
Recommended personal protective equipment for first aid responders	No recommendation given.

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

Delayed symptoms and effects	No recommendation given.
------------------------------	--------------------------

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

Separate first aid equipment	No recommendation given.
------------------------------	--------------------------

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
------------------------------	--

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

Fire and explosion hazards	This product is not flammable.
Hazardous combustion products	No recommendation given.

#### 5.3. Advice for firefighters

### SECTION 6: Accidental release measures

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

Personal protection measures	Follow precautions for safe handling described in this safety data sheet.
For emergency responders	No recommendation given.

#### 6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground.
--------------------------------------	--

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

Clean up	Small quantities can be dissolved/diluted in water and flushed to drain. Large quantities should not be discharged into the drain but removed with absorbing material.
----------	--

#### 6.4. Reference to other sections

Other instructions	No recommendation given.
--------------------	--------------------------

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Avoid contact with eyes and prolonged skin contact.
----------	---

### Protective safety measures

Safety measures to prevent fire	No recommendation given.
Preventitive measures to prevent aerosol and dust generation	Not relevant.
Preventitive measures to protect the environment	No recommendation given.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep only in original container. Protect from freezing and direct sunlight. Keep out of reach of children.
---------	--

### 7.3. Specific end use(s)

Recommendations	Do not handle until all safety precautions have been read and understood. Keep out of reach of children.
Specific use(s)	No recommendation given.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
1-Methoxy-2-propanol	CAS No.: 107-98-2	Limit value (8 h) : 100 ppm Limit value (8 h) : 375 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 150 ppm <b>Limit value (short term)</b> Value: 560 mg/m <sup>3</sup>	TWA Year: 2011
Ethanol	CAS No.: 64-17-5	Limit value (8 h) : 1000 ppm Limit value (8 h) : 1920 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 1000 ppm <b>Limit value (short term)</b> Value: 1900 mg/m <sup>3</sup>	
Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h) : 400 ppm Limit value (8 h) : 999 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 500 ppm <b>Limit value (short term)</b> Value: 1250 mg/m <sup>3</sup>	

Alcohols, C12-C14, ethoxylated	CAS No.: 68439-50-9
-----------------------------------	---------------------

**DNEL / PNEC**

Summary of risk management measures, human	No recommendation given.
---	--------------------------

Summary of risk management measures, environment	No recommendation given.
---	--------------------------

**8.2. Exposure controls****Safety signs****Eye / face protection**

Eye protection, comments	Wear approved chemical safety goggles where eye exposure is reasonably probable.
--------------------------	--

**Hand protection**

Skin- / hand protection, short term contact	Wear protective gloves.
--	-------------------------

Skin- / hand protection, long term contact	Wear protective gloves.
---	-------------------------

Suitable gloves type	Neoprene, nitrile, polyethylene or PVC. Butyl rubber.
----------------------	---

**Respiratory protection**

Respiratory protection, comments	Respiratory protection is not required under normal conditions of use
----------------------------------	---

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	Fluid.
----------------	--------

Colour	Colourless.
--------	-------------

Odour	Slight odour of alcohol.
-------	--------------------------

Odour limit	Comments: Not determined.
-------------	---------------------------

pH	Status: In delivery state Value: ~ 11
----	--

Status: In aqueous solution Value: ~ 10
--

Melting point / melting range	Comments: Not determined.
-------------------------------	---------------------------

Boiling point / boiling range	Value: ~ 100 °C
-------------------------------	-----------------

Flash point	Value: > 60 °C
-------------	----------------

Evaporation rate	Comments: Not determined.
Explosion limit	Comments: Not relevant
Vapour pressure	Comments: Not determined.
Vapour density	Comments: Not determined.
Density	Value: ~ 0,95 g/cm <sup>3</sup>
Bulk density	Comments: Not determined.
Solubility	Comments: Soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not determined.
Spontaneous combustability	Comments: Not determined.
Decomposition temperature	Comments: Not determined.
Viscosity	Comments: Not determined
Explosive properties	Not relevant
Oxidising properties	Does not meet the criteria for oxidising.

## 9.2. Other information

### Other physical and chemical properties

Comments	Information given concerns the concentrated solution.
----------	---

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	There are no known conditions that are likely to result in a hazardous situation.
------------	---

### 10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
-----------	---

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No recommendation given.
------------------------------------	--------------------------

### 10.4. Conditions to avoid

Conditions to avoid	No recommendation given.
---------------------	--------------------------

### 10.5. Incompatible materials

Materials to avoid	No recommendation given.
--------------------	--------------------------

### 10.6. Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products.
----------------------------------	--------------------------------------

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Substance	1-Methoxy-2-propanol
Acute toxicity	<p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Oral  <b>Value:</b> 4016 mg/kg  <b>Animal test species:</b> Rat</p> <p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Dermal  <b>Value:</b> 2000 mg/l  <b>Animal test species:</b> Rat</p> <p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Inhalation.  <b>Value:</b> 25,8 mg/l  <b>Animal test species:</b> Rat</p>
Substance	Ethanol
Acute toxicity	<p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Oral  <b>Method:</b> OECD 401  <b>Value:</b> 10470 mg/kg  <b>Animal test species:</b> Rat</p> <p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LC50  <b>Route of exposure:</b> Inhalation.  <b>Method:</b> OECD 403  <b>Value:</b> 124,7 mg/l  <b>Animal test species:</b> Rat</p> <p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Dermal  <b>Method:</b> OECD 402  <b>Value:</b> &gt; 10000 mg/kg  <b>Animal test species:</b> Rabbit</p>
Substance	Propan-2-ol
Acute toxicity	<p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LD50  <b>Route of exposure:</b> Oral  <b>Value:</b> 5280 mg/kg  <b>Animal test species:</b> Rat</p> <p><b>Type of toxicity:</b> Acute  <b>Effect tested:</b> LC50</p>

	<b>Route of exposure:</b> Inhalation. <b>Duration:</b> 4 hour(s) <b>Value:</b> 72,6 mg/l <b>Animal test species:</b> Rat
	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Dermal <b>Value:</b> 12800 mg/kg <b>Animal test species:</b> Rabbit
Substance	Alcohols, C12-C14, ethoxylated
Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> > 2000 mg/kg <b>Animal test species:</b> Rat

### Other information regarding health hazards

Inhalation	No recommendation given.
Skin contact	No recommendation given.
Eye contact	Causes serious eye irritation.
Ingestion	No specific health risk stated.
Sensitisation	Not Sensitising.
Mutagenicity	No known chronic or acute health risks.
Carcinogenicity, other information	No known chronic or acute health risks.
Reproductive toxicity	No known chronic or acute health risks.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	1-Methoxy-2-propanol
Aquatic toxicity, fish	<b>Toxicity type:</b> Acute <b>Value:</b> 6812 mg/l <b>Effect dose concentration :</b> LC50 <b>Test duration:</b> 96 hour(s) <b>Species:</b> Leuciscus idus
Substance	Ethanol
Aquatic toxicity, fish	<b>Toxicity type:</b> Acute <b>Value:</b> 8150 mg/l <b>Effect dose concentration :</b> LC50 <b>Test duration:</b> 48 hour(s) <b>Species:</b> Leuciscus idus melanotus <b>Method:</b> LC50
Substance	Propan-2-ol



Aquatic toxicity, fish	<b>Toxicity type:</b> Acute <b>Value:</b> 9640 mg/l <b>Effect dose concentration :</b> LC50 <b>Test duration:</b> 96 hour(s) <b>Species:</b> Pimephales promelas <b>Method:</b> LC50
Substance	Alcohols, C12-C14, ethoxylated
Aquatic toxicity, fish	<b>Value:</b> 1 - 10 mg/l <b>Test duration:</b> 96h <b>Species:</b> Carp fish <b>Method:</b> OECD 203
Substance	Ethanol
Aquatic toxicity, algae	<b>Toxicity type:</b> Acute <b>Value:</b> 275 mg/l <b>Effect dose concentration :</b> EC50 <b>Test duration:</b> 72 hour(s) <b>Species:</b> Chlorella vulgaris <b>Method:</b> OECD TG 201
Substance	Propan-2-ol
Aquatic toxicity, algae	<b>Toxicity type:</b> Acute <b>Value:</b> > 1000 mg/l <b>Effect dose concentration :</b> EC50 <b>Test duration:</b> 72 hour(s) <b>Species:</b> Desmodesmus subspicatus <b>Method:</b> EC50
Substance	Alcohols, C12-C14, ethoxylated
Aquatic toxicity, algae	<b>Value:</b> 1 - 10 mg/l <b>Test duration:</b> 72h <b>Species:</b> Selenastrum capricornutum <b>Method:</b> OECD 201
Substance	1-Methoxy-2-propanol
Aquatic toxicity, crustacean	<b>Toxicity type:</b> Acute <b>Value:</b> > 21000 mg/l <b>Effect dose concentration :</b> EC50 <b>Test duration:</b> 48 hour(s) <b>Species:</b> Daphnia magna
Substance	Ethanol
Aquatic toxicity, crustacean	<b>Toxicity type:</b> Acute <b>Value:</b> 5012 mg/l <b>Effect dose concentration :</b> LC50 <b>Test duration:</b> 48 hour(s) <b>Species:</b> Ceriodaphnia dubia <b>Method:</b> ASTM E 729-80
Substance	Propan-2-ol
Aquatic toxicity, crustacean	<b>Toxicity type:</b> Acute <b>Value:</b> 13299 mg/l

	<b>Effect dose concentration :</b> EC50 <b>Test duration:</b> 48 hour(s) <b>Species:</b> Daphnia magna <b>Method:</b> EC50
Substance	Alcohols, C12-C14, ethoxylated
Aquatic toxicity, crustacean	<b>Value:</b> 1 - 10 mg/l <b>Test duration:</b> 48h <b>Species:</b> Daphnia magna <b>Method:</b> OECD 202
Substance	Ethanol
Toxicity to bacteria	<b>Toxicity type:</b> Acute <b>Value:</b> 6500 mg/l <b>Effect dose concentration :</b> EC0 <b>Test duration:</b> 16 hour(s) <b>Species:</b> Pseudomonas putida <b>Method:</b> EC0
Substance	Propan-2-ol
Toxicity to bacteria	<b>Toxicity type:</b> Acute <b>Value:</b> 5175 mg/l <b>Effect dose concentration :</b> EC10 <b>Test duration:</b> 18 hour(s) <b>Species:</b> Pseudomonas putida <b>Method:</b> DIN 38412
Ecotoxicity	Not classified as dangerous to the environment.

## 12.2. Persistence and degradability

Persistence and degradability description/evaluation	All organic components are considered biodegradable.
Substance	1-Methoxy-2-propanol
Biodegradability	<b>Value:</b> 96 % <b>Method:</b> OECD 301 E <b>Test period:</b> 28 day(s)
Substance	Alcohols, C12-C14, ethoxylated
Biodegradability	<b>Value:</b> 100% <b>Method:</b> OECD 301A

## 12.3. Bioaccumulative potential

Bioaccumulation, comments	Bioaccumulation: Is not expected to be bioaccumulable.
---------------------------	--

## 12.4. Mobility in soil

Mobility	Data lacking.
----------	---------------

## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any PBT or vPvB substances.
------------------------------------	---

## 12.6. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Recover and reclaim or recycle, if practical. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.
Appropriate methods of disposal for the contaminated packaging	Recover and reclaim or recycle, if practical.
EWC waste code	EWC waste code: 200129 detergents containing dangerous substances Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150102 plasticpackaging Classified as hazardous waste: No
Other information	Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

### SECTION 14: Transport information

#### 14.1. UN number

Comments	Not relevant.
----------	---------------

#### 14.2. UN proper shipping name

Comments	Not relevant.
----------	---------------

#### 14.3. Transport hazard class(es)

Comments	Not relevant.
----------	---------------

#### 14.4. Packing group

Comments	Not relevant.
----------	---------------

#### 14.5. Environmental hazards

#### 14.6. Special precautions for user

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

### SECTION 15: Regulatory information

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

EEC-directive	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
---------------	---

Other label information	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
References (laws/regulations)	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. - EH40/2005, Workplace exposure limits 2005, with amendments. Local waste regulation
Comments	For use in industrial installations or professional treatment only.

## 15.2. Chemical safety assessment

Chemical safety assessment performed	No
CSR required	No
Exposure scenarios for mixture	No

## SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Additional information	For restrictions on use see section 15. The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.
Information added, deleted or revised	New edition according to Regulation (EU) 453/2010 regarding safety data sheets. no change in classification.
Revision responsible	Maria Winnberg
Last update date	30.10.2019
Version	3
Prepared by	Erik Persson