

# Safety Data Sheet

Revision date: February 20<sup>th</sup>, 2020

Version: J

SDS number: 10046393

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

**Product Name:** CLEANING FLUID #15000 for PW2000/PW2400/PW3600Pro/PW4200

**Product Code:** 29483, 29493, 29510, 29954, 39007, 39008, 39135, 39142, 10081660, 10081661, 10081974, 10081980

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

**Recommended use:** Printing operations

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

**Manufacturer:** Glunz & Jensen A/S  
Lindholm Havnevej 29  
DK - 5800 Nyborg  
Denmark

**Phone:** +45 5768 8181

**Fax:** +45 5768 8340

### 1.4 Emergency

**phone number:** For Chemical Emergency Spill Leak Fire Exposure or Accident Call  
USA: Chemtrec: +001-800-424-9300; Outside USA: +001-703-527-3887  
24 Hour Emergency Phone Number

## 2. HAZARDOUS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

**According to Regulation (EC) No 1272/2008:**

Reproductive Toxicity: Category 1B - (H360)

Specific target organ systemic toxicity

(single exposure): Category 3 - (H336)

Physical hazards: Flammable liquids Category 3 - (H226)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC:**

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 2.2 Label elements:



Signal Word:

Danger

**Hazard Statements:**

H336 - May cause drowsiness or dizziness.  
 H360 - May damage fertility or the unborn child.  
 H226 - Flammable liquid and vapor.

**Precautionary Statements - EU (§28, 1272/2008):**

P202 - Do not handle until all safety precautions have been read and understood  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P308 + P313 - IF exposed or concerned: Get medical advice/attention  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P235 - Keep cool  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

**2.3 Other Hazards:**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component                                     | EC No.    | CAS-No.   | Weight % | Classification                             | GHS Classification   | REACH No.             |
|---|-----------|-----------|----------|--|--|-----------------------|
| Propylene glycol monomethyl ether<br>107-98-2 | 203-539-1 | 107-98-2  | 60 - 100 | R10<br>R67                                 | Flam. Liq. 3 (H226)<br>STOT SE 3 (H336)  | 01-2119457435-35-xxxx |
| 2-Methoxy-1-propanol<br>1589-47-5             | 216-455-5 | 1589-47-5 | < 0.5    | R10<br>Xi; R37/38-41<br>Repr.Cat.2;<br>R61 | Skin Irrit. 2 (H315)<br>Flam. Liq. 3 (H226)<br>Repr. 1B (H360D)<br>STOT SE 3 (H335)<br>Eye Dam. 1 (H318) | No data available     |

**Note:** REACH No: Registration number(s) may not be provided because substance(s) are exempted or not yet required under REACH

1. Substance with Community workplace exposure limit

For the full text of the R-phrases mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES**

**4.1 Description of first-aid measures:**

**General Advice:**

Show this safety data sheet to the doctor in attendance.

**Eye Contact:**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

**Skin Contact:**

Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

**Inhalation:**

If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

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**Ingestion:**

If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed:**

None under normal use conditions.

**4.3 Indication of any immediate medical attention and special treatment needed:**

**Notes to Physician:** Treat symptomatically.

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**5. FIRE-FIGHTING MEASURES**

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**5.1 Extinguishing media:****Suitable Extinguishing Media:**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**5.2 Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

**Special protective equipment for fire-fighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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**6. ACCIDENTAL RELEASE MEASURE**

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**6.1 Personal precautions, protective equipment and emergency procedures:**

Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**6.2 Environmental precautions:**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and materials for containment and cleaning up:**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

**6.4 Reference to other sections:**

See Section 12 for additional information.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Use personal protective equipment as required. Do not eat, drink or smoke when using this product.  
Ensure adequate ventilation.

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

Keep containers tightly closed in dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

### 7.3 Specific end uses:

**Exposure Scenario:** No information available.

**Risk Management Methods:** The information required is contained in this Safety Data Sheet.  
(RMM)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters:

Exposure limits:

| Component                                     | European Union   | The United Kingdom   | France  | Spain  | Germany   |
|---|--|--|---|--|---|
| Propylene glycol monomethyl ether<br>107-98-2 |  | STEL: 150 ppm<br>STEL: 560 mg/m <sup>3</sup><br>TWA: 100 ppm<br>TWA: 375 mg/m <sup>3</sup><br>Skin                   | TWA/VME:<br>50 ppm<br>(restrictive limit)<br>TWA/VME:<br>188 mg/m <sup>3</sup><br>(restrictive limit)<br>STEL/VLCT:<br>100 ppm<br>(restrictive limit)<br>STEL/VLCT:<br>375 mg/m <sup>3</sup><br>(restrictive limit)<br>Skin | STEL/VLA-EC:<br>150 ppm<br>STEL/VLA-EC:<br>568 mg/m <sup>3</sup><br>TWA/VLA-ED:<br>100 ppm<br>TWA/VLA-ED:<br>375 mg/m <sup>3</sup><br>Skin | TWA/MAK:<br>100 ppm<br>TWA/MAK:<br>370 mg/m <sup>3</sup><br>Peak: 200 ppm<br>Peak: 740 mg/m <sup>3</sup><br>TWA/AGW:<br>100 ppm<br>TWA/AGW:<br>370 mg/m <sup>3</sup>  |
| 2- Methoxy-1-propanol<br>1589-47-5            |  |  |   | TWA/VLA-ED:<br>5ppm<br>TWA/VLA-ED:<br>19 mg/m <sup>3</sup>   | TWA/MAK:<br>5 ppm<br>TWA/MAK:<br>370 mg/m <sup>3</sup><br>TWA/AGW:<br>5 ppm<br>TWA/AGW:<br>19 mg/m <sup>3</sup><br>Peak: 10 ppm<br>Peak: 38 mg/m <sup>3</sup><br>Skin |
| Component                                     | Italy  | Portugal   | The Netherlands   | Finland  | Ireland   |
| Propylene glycol monomethyl ether<br>107-98-2 | TWA: 100 ppm<br>TWA: 375 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 568 mg/m <sup>3</sup><br>Skin | STEL/VLE-CD:<br>150 ppm<br>TWA/VLE-MP:<br>100 ppm<br>TWA/VLE-MP:<br>150 ppm<br>STEL/VLE-CD:<br>568 mg/m <sup>3</sup> | STEL: 563 mg/m <sup>3</sup><br>TWA: 375 mg/m <sup>3</sup><br>Skin   | TWA: 100 ppm<br>TWA: 370 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 560 mg/m <sup>3</sup><br>Skin   | TWA: 100 ppm<br>TWA: 375 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 568 mg/m <sup>3</sup>  |

| Component                                     | Austria  | Switzerland  | Poland   | Norway  | Denmark                                   |
|---|--|--|--|---|---|
| Propylene glycol monomethyl ether<br>107-98-2 | STEL/KZW:<br>50 ppm<br>STEL/KZW:<br>187 mg/m <sup>3</sup><br>TWA/TMW:<br>50 ppm<br>TWA/TMW:<br>187 mg/m <sup>3</sup><br>Ceiling: 50 ppm<br>Ceiling:<br>187 mg/m <sup>3</sup><br>Skin | STEL/KZW:<br>200 ppm<br>STEL/KZW:<br>720 mg/m <sup>3</sup><br>TWA/MAK:<br>100 ppm<br>TWA/MAK:<br>360 mg/m <sup>3</sup>     | NDSch:<br>360 mg/m <sup>3</sup><br>TWA/NDS:<br>180 mg/m <sup>3</sup> | TWA: 50 ppm<br>TWA: 180 mg/m <sup>3</sup><br>Skin | TWA: 50 ppm<br>TWA: 185 mg/m <sup>3</sup> |
| 2- Methoxy-1-propanol<br>1589-47-5            | STEL/KZW:<br>50 ppm<br>STEL/KZW:<br>300 mg/m <sup>3</sup><br>TWA/TMW:<br>50 ppm<br>TWA/TMW:<br>187 mg/m <sup>3</sup><br>Skin   | TWA/MAK:<br>5 ppm<br>TWA/MAK:<br>19 mg/m <sup>3</sup><br>STEL/KZW:<br>40 ppm<br>STEL/KZW:<br>152 mg/m <sup>3</sup><br>Skin |  | TWA: 20 ppm<br>TWA: 180 mg/m <sup>3</sup><br>Skin | TWA: 20 ppm<br>TWA: 75 mg/m <sup>3</sup>  |

| Component                                      | DNEL - Dermal (Workers)           | DNEL - Inhalation (Workers)   |
|--|-----------------------------------|---|
| Propylene glycol monomethyl ether<br>1007-98-2 | 183 mg/kg<br>(Systemic long term) | 369 m/m <sup>3</sup><br>(Systemic long term)<br>553.5 mg/m <sup>3</sup><br>(Systemic acute/short term)<br>553.5 mg/m <sup>3</sup><br>(Local acute/short term) |

**Derived No Effect Level (DNEL):** No information available.

**Predicted No Effect Concentration (PNEC):** No information available.

### 8.2 Exposure controls:

#### Engineering Measures:

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Personal protective equipment:

##### Eye/Face Protection:

Wear safety glasses with side shields (or goggles). If splashes are likely to occur: Wear suitable face shield. Ensure that the eyewash stations and safety showers are close to the workstation location.

##### Eye Protection:

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

##### Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Hand protection:**

Chemical resistant protective gloves. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 mins of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on test, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimensions, color, flexibility.

**Respiratory Protection:**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

**General Hygiene Considerations:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

**Environmental exposure controls:** No information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

|   |                              |
|---|------------------------------|
| Physical State:                         | Liquid                       |
| Appearance:                             | Water-white                  |
| Odor:                                   | Characteristic               |
| Odor Threshold:                         | No information available.    |
| pH:                                     | No data available.           |
| Melting Point/Range:                    | No data available.           |
| Freezing Point/Range:                   | No data available.           |
| Boiling point/Boiling Range:            | >149 °C / >300 °F            |
| Flash Point:                            | 32 °C / 89 °F Tag closed cup |
| Evaporation rate:                       | No data available.           |
| Flammability (solid, gas):              | No data available.           |
| Flammability Limits in Air:             |                              |
| Upper:                                  | No data available.           |
| Lower:                                  | No data available.           |
| Vapour Pressure:                        | No data available.           |
| Vapour Density:                         | Heavier than air.            |
| Relative density:                       | No data available.           |
| Specific Gravity:                       | 0.92                         |
| Solubility:                             | No data available.           |
| Partition coefficient: n-octanol/water: | No data available.           |
| Autoignition Temperature:               | No data available.           |
| Decomposition temperature:              | No data available.           |
| Viscosity:                              | No data available.           |
| Explosive Properties:                   | No information available.    |
| Oxidizing Properties:                   | No information available.    |

**9.2 Other information:**

**Softening Point:** No data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

No data available.

### 10.2 Chemical Stability:

Stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions:

None under normal processing.

### 10.4 Conditions to avoid:

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible Materials:

Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.

### 10.6 Hazardous decomposition products:

Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### Acute Toxicity:

- Inhalation:** Specific test data for substance or mixture is not available.
- Eye contact:** Specific test data for substance or mixture is not available.
- Skin contact:** Specific test data for substance or mixture is not available.
- Ingestion:** Specific test data for substance or mixture is not available.

#### Unknown Acute Toxicity:

0 % of the mixture consist of ingredient(s) of unknown toxicity, acute oral toxicity, acute dermal toxicity, acute inhalation toxicity (gas), acute inhalation toxicity (vapor), acute inhalation toxicity (dust/mist).

| Component                                     | LD50 Oral        | LD50 Dermal            | LC50 Inhalation    |
|---|------------------|------------------------|--------------------|
| Propylene glycol monomethyl ether<br>107-98-2 | 5000 mg/kg (Rat) | 13000 mg/kg ( Rabbit ) | >7559 ppm (Rat) 6h |
| 2-Methoxy-1-propanol<br>1589-47-5             | 5710 mg/kg (Rat) | 5600 mg/kg (Rabbit)    |                    |

- Skin corrosion/irritation:** Specific test data for substance or mixture is not available.
- Eye damage/irritation:** Specific test data for substance or mixture is not available.
- Sensitization:** Specific test data for substance or mixture is not available.
- Mutagenic Effects:** Specific test data for substance or mixture is not available.
- Carcinogenic Effects:** Specific test data for substance or mixture is not available.
- Reproductive Effects:** Specific test data for substance or mixture is not available. May damage fertility or the unborn child. (based on components)

**CMR, categories 1 and 2** This product contains one or more substances which are classified in the EU as

| Component                         | Classification           |
|-----------------------------------|--------------------------|
| 2-Methoxy-1-propanol<br>1589-47-5 | Reproductive Toxicity 1B |

**STOT - single exposure:** Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness (based on components).  
**STOT - repeated exposure:** Specific test data for the substance or mixture is not available.  
**Aspiration hazard:** Specific test data for the substance or mixture is not available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

We have no quantitative data concerning the ecological effects of this product. Environmental fate information is derived from consideration of the properties of the ingredients.

| Component                                     | Algae | Fish   | Water Flea                            |
|---|-------|--|---------------------------------------|
| Propylene glycol monomethyl ether<br>107-98-2 |       | 96h LC50<br>Leuciscus idus:<br>4600 - 10000 mg/L [static]<br>96h LC50<br>Pimephales promelas:<br>20.8 g/L [static] | 48h EC50 Daphnia magna:<br>23300 mg/L |

### 12.2 Persistence and degradability:

No information available.

### 12.3 Bioaccumulative potential:

| Component                                  | log Pow |
|--|---------|
| Propylene glycol monomethyl ether 107-98-2 | -0.437  |

### 12.4 Mobility in soil:

No information available.

### 12.5 Results of PBT and vPvB assessment:

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects:

No information available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

#### Waste from Residues / Unused Products:

Contain and dispose of waste according to local regulations.

#### Contaminated Packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.



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## 14. TRANSPORT INFORMATION

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**Note:**

This information is not intended to convey all specific transportation requirements relating to this product. Transportation classification may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules to the transportation of the material.

**ADR:**

UN1210, Printing Ink Related Material, 3, III

**ICAO/IATA/IMDG/IMO:**

UN1210, Printing Ink Related Material, 3, III

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## 15. REGULATORY INFORMATION

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****International Inventories:**

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier.

**15.2 Chemical Safety Assessment:**

This information is not available.

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## 16. OTHER INFORMATION

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**Text of R phrases mentioned in Section 3:**

R10 - Flammable

R67 - Vapours may cause drowsiness and dizziness

R61 - May cause harm to the unborn child

R41 - Risk of serious damage to eyes

R37/38 - Irritating to respiratory system and skin

**Full text of H-Statements referred to under sections 2 and 3:**

H226 - Flammable liquid and vapor

H336 - May cause drowsiness or dizziness

H315 - Causes skin irritation

H360D - May damage the unborn child

H335 - May cause respiratory irritation

H318 - Causes serious eye damage

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

**Key literature references and sources for data:**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Revision Date:** July-01-2019

**Disclaimer**

The information provided in this Safety Data Sheet 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 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 materials or in any process, unless specified in the text.