

Safety Data Sheet

Revision date: August 25th, 2020

Version: I

SDS number: 10045273

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Product identifier:

Product Name: MAINTENANCE FLUID PW2000/PW2400

Product Code: 39110, 39115, 39117, 39119, 39126

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: Chemtrec: +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.

R-code(s): R10 - R67

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 %	GHS Classification	REACH No.	Note
Propylene glycol monomethyl ether	203-539-1	107-98-2	60 - 100	Flam. Liq. 3 (H226) STOT SE 3 (H336)	01-2119457435-35-xxxx	1
2-Methoxy-1-propanol	216-455-5	1589-47-5	< 0.5	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Repr. 1B (H360D) STOT SE 3 (H335) Eye Dam. 1 (H318)	No data available	1

Note

REACH No: Registration number(s) may not be provided because substance(s) are exempted or not yet required to be registered under REACH 1. Substance with a Community workplace exposure limit

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

4. FIRST AID

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:

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

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.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable Extinguishing Media:

Foam. Carbon dioxide (CO₂). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for safety reasons:

No information available.

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.

5.3 Advice for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

6. ACCIDENTAL RELEASE MEASURE

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, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in 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.

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 a 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 (RMM): The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

EXPOSURE LIMITS :

Component	Australia	The United Kingdom	France	Spain	Germany
Propylene glycol monomethyl ether	STEL: 150 ppm STEL: 553 mg/m ³ TWA: 100 ppm TWA: 369 mg/m ³	STEL: 150 ppm STEL: 560 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³ Skin	TWA/VME: 50 ppm (restrictive limit) TWA/VME: 188 mg/m ³ (restrictive limit) STEL/VLCT: 100 ppm (restrictive limit) STEL/VLCT: 375 mg/m ³ (restrictive limit) Skin	STEL/VLA-EC: 150 ppm STEL/VLA-EC: 568 mg/m ³ TWA/VLA-ED: 100 ppm TWA/VLA-ED: 375 mg/m ³ Skin	TWA/MAK: 100 ppm TWA/MAK: 370 mg/m ³ Peak: 200 ppm Peak: 740 mg/m ³ TWA/AGW: 100 ppm TWA/AGW: 370 mg/m ³
2-Methoxy-1-propanol				TWA/VLA-ED: 5 ppm TWA/VLA-ED: 19 mg/m ³	TWA/MAK: 5 ppm TWA/MAK: 19 mg/m ³ TWA/AGW: 5 ppm TWA/AGW: 19 mg/m ³ Peak: 10 ppm Peak: 38 mg/m ³ Skin
Component	Italy	Portugal	The Netherlands	Finland	Ireland
Propylene glycol monomethyl ether	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³ Skin	TWA/VLE-MP: 100 ppm 375 mg/m ³ STEL/VLE-CD: 150 ppm 568 mg/m ³	STEL: 563 mg/m ³ TWA: 375 mg/m ³ Skin	TWA: 100 ppm TWA: 370 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ Skin	TWA: 100 ppm TWA: 370 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³

Component	Austria	Switzerland	Poland	Norway	Denmark
Propylene glycol monomethyl ether	STEL/KZW: 50 ppm STEL/KZW: 187 mg/m ³ TWA/ TMW: 50 ppm TWA/TMW: 187 mg/m ³ Ceiling: 50 ppm Ceiling: 187 mg/m ³ Skin	STEL/KZW: 200 ppm STEL/KZW: 720 mg/m ³ TWA/MAK: 100 ppm TWA/MAK: 360 mg/m ³	NDSch: 360 mg/m ³ TWA/NDS: 180 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ Skin	TWA: 50 ppm TWA: 185 mg/m ³
2-Methoxy-1-propanol	STEL/KZW: 80 ppm STEL/KZW: 300 mg/m ³ TWA/TMW: 20 ppm TWA/TMW: 75 mg/m ³ Skin	TWA/MAK: 5 ppm TWA/MAK: 19 mg/m ³ STEL/KZW: 40 ppm STEL/KZW: 152 mg/m ³ Skin		TWA: 20 ppm TWA: 75 mg/m ³ Skin	TWA: 20 ppm TWA: 75 mg/m ³

Derived No Effect Level (DNEL):

Component	DNEL - Dermal (Workers)	DNEL - Inhalation (Workers)
Propylene glycol monomethyl ether	183 mg/kg (Systemic long term)	369 mg/m ³ (Systemic long term) 553.5 mg/m ³ (Systemic acute/short term) 553.5 mg/m ³ (Local acute/short term)

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 is 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 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.

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.

Hand Protection:

Chemical resistant protective gloves. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes 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 tests, 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 dimension, color, flexibility.

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: Appearance:	Liquid
Odor:	Colored, liquid
Odor Threshold:	Characteristic
pH:	No information available.
Melting Point/Range:	No data available.
Freezing Point/Range:	No data available.
Boiling point/Boiling Range:	No data available.
Flash Point:	>149 °C / >300 °F
Evaporation rate:	32 °C / 89 °F Tag closed cup
Flammability (solid, gas):	No data available.
Flammability Limits in Air:	No data available.
Upper:	No data available.
Lower:	No data available.
Vapour Pressure:	No data available.
Vapour Density:	Heavier than air.
Specific Gravity:	0.93
Solubility:	No data available.
Partition coefficient: n-octanol/water:	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.
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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 (CO₂). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute Toxicity:

Inhalation: Specific test data for the substance or mixture is not available.

Eye Contact: Specific test data for the substance or mixture is not available.

Skin Contact: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

Unknown Acute Toxicity: 0 % of the mixture consists of ingredient(s) of unknown toxicity. The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/L

Unknown Acute Toxicity:

0 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propylene glycol monomethyl ether	5000 mg/kg (Rat)	13000 mg/kg (Rabbit)	>7559 ppm (Rat) 6 h
2-methoxy-1-propanol	5710 mg/kg (Rat)	5660 mg/kg (Rabbit)	

Skin corrosion/irritation: Specific test data for the substance or mixture is not available.

Eye damage/irritation: Specific test data for the substance or mixture is not available.

Sensitization: Specific test data for the substance or mixture is not available.

Mutagenic Effects: Specific test data for the substance or mixture is not available.

Carcinogenic Effects: Specific test data for the substance or mixture is not available.

Reproductive Effects: Specific test data for the 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 carcinogenic, mutagenic and/or reprotoxic.

This product contains one or more substances which are classified in the EU as carcinogenic, mutagenic and/or reprotoxic.

Component	Classification
2-Methoxy-1-propanol	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:

Specific test data for the substance or mixture is not available.

Unknown Aquatic Toxicity: 0 % of the mixture consists of components of unknown hazards to the aquatic environment

Component	Algae	Fish	Water Flea
Propylene glycol monomethyl ether		96h LC50 Pimephales promelas: 20.8 g/L [static]	48h EC50 Daphnia magna: 23300 mg/L

12.2 Persistence and degradability:

No information available.

12.3 Bioaccumulative potential:

No information available.

Component	log Pow
Propylene glycol monomethyl ether	-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.

14. TRANSPORT INFORMATION

Note: This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications 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 relating to the transportation of the material.

ICAO/IATA/IMDG/IMO: UN1210, Printing Ink, 3, III

ADR: UN1210, Printing Ink, 3, III

15. REGULATORY INFORMATION

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

European Union

International Inventories

For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor)

15.2 Chemical Safety Assessment:

This information is not available.

16. OTHER INFORMATION

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

H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H360D - May damage the unborn child

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

Revision Date: Aug-25-2020

Revision Note: New SDS format

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.