

Material name: Cleaning Fluid

In Compliance with Regulation (EG) 1907/2006 (REACH) as Amended

Section 1 Product Identifier**1.1 Material Name: Cleaning Fluid/Reinigungsflüssigkeit****1.2 Uses of the Substance:** This product is a cartridge containing ink. Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited.**Uses Advised Against:** None known**1.3 Company name:****iSQUARED AG**

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Section 2 Hazards Identification**2.1 Classification**

Classification according to Regulation (EG) Nr. 1272/ 2008:

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

2.2 Label Elements: none**Storage:** Store at roomtemperature in a dry place away from light.**Disposal:** P501 Dispose of contents/ container in accordance with local/ regional/ national regulations.**2.3 Other Hazards:** None known.**Section 3 Composition/ Information on Ingredients**

CAS EC No. Registration No.	Component Synonyms	67/548 EEC (DSD)	1272/2008 (CLP)	Wt %
Proprietary	Non-hazardous ingredients	-	-	100

Additional Information: Under normal conditions of use, the substance is released from a cartridge only inside an appropriate system, and therefore exposure is limited. The liquid within the

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cartridges is considered hazardous, and the MSDS has been prepared in case of exposure to the liquid.

Section 4 First Aid Measures

Description of First Aid Measures:

4.1 Inhalation: Move affected person to fresh air. If inhaled, seek medical attention immediately.

4.2 Skin: Wash skin with soap and water.

4.3 Eyes: Wash thoroughly with plenty of water for 15 minutes. Consult a physician.

4.4 Ingestion: Clean Mouth with water. Consult a physician

Section 5 Fire Fighting Measures

5.1. Suitable extinguishing media: Water mist, dry chemical, carbon dioxide, or appropriate foam for class B fire.

5.2 Extinguishing media which must not be used for safety reasons: None known.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Thermal decomposition products can include CO₂ and CO.

5.4 Special protective equipment for fire-fighters: Wear full protective clothing, including helmet, self-contained positive-pressure or pressure demand breathing apparatus, protective clothing and facemask.

5.5 Additional information: Move container from area if it can be done without risk. Cool containers with water spray. Avoid inhalation of material or combustion by-products.

Section 6 Accidental Release Measures

Occupational Spill/ Release: Intact cartridges do not pose a leak or spill hazard. Damaged cartridges may leak ink. Stop leak if possible without personal risk. Absorb with sand or other non-combustible material like chemical binder. Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers.

6.1. Personal precautions: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing. Consult expert immediately.

6.2 Environmental precautions: Stop the flow of material, if it can be done without personal risk. Ventilate contaminated area. Eliminate sources of ignition. In case of contamination of aquatic environment inform local authorities.

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6.3 Methods for cleaning up: Wear appropriate protective equipment and clothing. Absorb spillage with suitable absorbent materials. Place all waste in an appropriate container for disposal. The material and its container must be disposed of as hazardous waste. Keep away from sources of ignition.

Section 7 Handling and Storage

7.1 Handling: Provide adequate ventilation. Use suitable protective equipment. Avoid contact with skin and eyes. Do not breathe vapor or mist. Do not allow to enter drains or watercourses.

7.2 Storage: Store sealed in the original container at room temperature. Keep this material indoors in a cool, dry, well ventilated place. Store out of direct sunlight or UV light sources. Storage temperature between 15 °C and 25 °C. Shipment temperatures (up to 5 weeks) is -20°C to 50°C.

Section 8 Exposure Controls / Personal Protection

8.1 Control Parameters: Components Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Exposure Controls

Technical measures to prevent exposure: Use explosion-proof local exhaust ventilation.

Instruction measures to prevent exposure: When using, do not eat, drink or smoke. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the day.

Personal protection equipment:

Respiratory protection: Respiratory protection is not necessary under normal conditions. If ventilation cannot effectively keep vapor concentrations below established limits, appropriate certified respiratory protection must be provided.

Skin protection: Skin protection is not necessary under normal conditions. Use impervious nitrile gloves when handling a damaged cartridge.

Eye protection: Eye Protection is not necessary under normal conditions. Wear safety glasses or chemical goggles while handling a damaged cartridge.

Body protection: Body protection is not necessary under normal conditions. Use apron and closed shoes.

Section 9 Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical State	Liquid	Appearance	yellowish liquid ink
Color	yellowish	Physical Form	liquid
Odor	Characteristic odor	Odor Threshold	Not available

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pH	Not available	Melting point	Not available
Boiling Point	Not available	Decomposition	Not available
Flash Point	>=100-250°C	Evaporation Rate	Not available
LEL	Not available	UEL	Not available
Vapor Pressure	Not available	Vapor Density (air=1)	Not available
Density	Not available	Specific Gravity (water=1)	Not available
Water solubility	Not available	Coeff. Water/ Oil Dist	Not available
Auto Ignition	Not available	Viscosity	Not available
Volatility	Not available		

Section 10 Stability and Reactivity

10.1 Reactivity: Heating may cause a fire

10.2 Chemical Stability: None

10.3 Possibility of Hazardous Reactions: Avoid strong oxidizing agents.

10.4 Conditions to Avoid: Avoid exposure to excessive heat.

10.5 Incompatible Materials: Not applicable under normal conditions.

10.6 Hazardous Decomposition Products

Thermal Decomposition Products

Combustion: Carbon oxides

Section 11 Toxicological Information

11.1 Information on Toxicological Effects

Acute and Chronic Toxicity: No hazard is expected from the normal use of this product.

11.2 Component Analysis - LD50/ LC50

Component	LD50 Oral	LD50 Dermal
1,2-Propylene glycol (57-55-6)	20000 mg/ kg (rat)	20800 mg/ kg (rabbit)

The components of this product have been reviewed in various sources and the following selected endpoints are published.

Irritant and corrosive effects: Irritating

Irritation to respiratory tract: NA

Sensitisation: No information available

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11.4 General remarks: Carcinogenicity: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Section 12 Ecological Information

12.1 Ecotoxicity: The aquatic toxicity of the product is unknown; however based on components, it is predicted that this material may be toxic to aquatic organisms or cause long-term adverse effects in the aquatic environment. Prevent contamination of soil, drains and surface waters.

12.2 Mobility: No information available for product.

12.3 Persistence and degradability: No information available for product.

12.4 Results of PBT assessment: No information available for product

12.5 Other adverse effects: No information available for product

Section 13 Disposal Considerations

13.1 Appropriate disposal / Product: Do not contaminate drains, soil or surface waters with this material or its container. Reduce waste by attempting to utilize product completely. Dispose of this container and its contents in accordance with all local, state, and federal regulations. Do not reuse or refill.

13.2 Additional information: Prior to disposal iSQUARED recommends consulting an approved waste disposal firm to ensure regulatory compliance.

Section 14 Transport Information

14.1 Transportation: Not regulated as hazardous materials.

14.2 International BULK Chemical Code: This material contains one or more of the following chemicals required by the IBC code to be identified as dangerous chemicals in bulk.

Section 15 Regulatory Information

15.1 Safety, Health and Environmental Regulations/ Legislation Specific for the Substances of Mixture

EU – REACH (1907/2006) – Annex XIV List of Substances Subjected to Authorisation

No components of this materials are listed.

EU – REACH (1907/2006) – Article 59(1) Candidate List of Substances for Eventual Inclusion in Annex XIV

No components of this materials are listed.

EU – REACH (1907/2006) – Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

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No components of this materials are listed.

Germany Regulations

Germany Water Classifications

1,2-PROPYLENGLYCOL (57-55-6)

Denmark Regulations

Enviornetnal Protection Agency List of Undesirable Substances

No component of this materials are listed

15.2 EU-Inventory

Substances Analysis - Inventory

15.3 Chemical Safety Assesment: No chemical safety assessment has been carried out for the substance.

Section 16 Other Information

16.1 Training Advice

Read the MSDS before handling the product.

DISCLAIMER OF LIABILITY: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

iSQUARED Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.