

Safety Data Sheet

1. Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifier:

CLEANING LIQUID, CJ-CL
CLEANING LIQUID, 500ML CJ-70

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

Inkjet Printing

1.3. Details of the supplier of the safety data sheet

Manufacture's name: Roland DG Corporation
Address: 1-6-4 Shinmiyakoda, Kita-ku, Hamamatsu-shi,
Shizuoka-ken, 431-2103
JAPAN
Phone: + 81-53-484-1224
Fax: + 81-53-484-1226

E-mail Address:

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1.4. Emergency telephone:

2. Hazard identification

2.1. Classification of the substance or mixture

This product is not classified as hazardous according to GHS criteria.

2.2. GHS label elements, including precautionary statements

The product does not need to be labelled in accordance with GHS criteria.

2.3. Other hazards

Potential Health Effects:

Eyes: Contact with eye may be mildly irritating.
Skin: Contact with skin may cause irritation, swelling or redness.
Inhalation: Exposure to vapors (mist) will cause respiratory irritation and anesthesia.
Ingestion: May cause upset stomach.
Chronic Health Hazards: None Known.
Carcinogenicity: None of the ingredients in this ink is listed by IARC as a carcinogen. (1,2A and 2B)

3. Composition/information on ingredients

Chemical nature: mixture

Composition	CAS No.	EC No.	EU registration No.	% By Weight	Classification EC No. 1272/2008
Proprietary organic materials	C.B.I.	C.B.I.	N/A for the moment	<5%	Not classified as hazardous
Water	7732-18-5	231-791-2	balance	balance	Not classified as hazardous

*C.B.I.: Confidential Business Information

4. First aid measures

4.1. Description of first aid measures

- Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during flushing. Call a physician.
- Skin:** In case of contact, immediately flush with plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. If swelling or redness occurs, call a physician.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- Ingestion:** If swallowed, DO NOT induce vomiting. Seek immediate medical advice.

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

- Eyes:** Contact with eye may be irritating.
- Skin:** Contact with skin may cause irritation, swelling or redness.
- Inhalation:** Exposure to vapors (mist) will cause respiratory irritation and anesthesia.
- Ingestion:** May cause upset stomach.

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

No information

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemical or carbon dioxide

Unsuitable extinguishing media:

No information

5.2. Special hazards arising from the substance or mixture

Not flammable

Flash point: Not detected until 100 deg.C / 230 deg.F (closed cup, ASTM D3278)

5.3. Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective equipment.
- Applying direct water may be dangerous because fire may expand to surroundings.

6. Accidental release measures

General:

Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill. Absorb spill with sand or earth then place in a chemical waste container.

- 6.1. Personal precautions, protective equipment and emergency procedures
Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus and wear appropriate personal protective equipment.
- 6.2. Environmental precautions
Wipe off spillage. Prevent liquid from entering sewers, waterways or low areas.
- 6.3. Methods and material for containment and cleaning up
Sweep up material and dispose as waste following local regulations. Scrub contaminated area with detergent and water.

Refer to “Section 8 Exposure controls/ personal protection” and “Section 13 Disposal consideration” as appropriate.

7. Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with eyes, skin and clothing. Use proper ventilation and no fire in work place. Keep out of reach of children and do not drink. Do not dismantle container.
- 7.2. Conditions for safe storage, including any incompatibilities
Do not store the product in high or freezing temperatures. Keep the product out of direct sunlight. Do not store the product with oxidizing agents or explosives.
- 7.3. Specific end use(s): Inkjet printing

8. Exposure controls/ personal protection

- 8.1. Control parameters
Occupational Exposure Limits: Not specified.
- 8.2. Exposure controls:

Occupational exposure control:	Use only with adequate ventilation.
Personal protective equipment:	
Respiratory protection:	Not required under suitable use as setting the cartridge on the printer. However, in case ventilation is not sufficient, wear respiratory protection.
Hand protection:	Not required under suitable use as setting the cartridge on the printer. However, in case of bottle container, use protective gloves.
Eye protection:	Not required under suitable use as setting the cartridge on the printer. However, in case of bottle container, wear safety glasses or chemical splash goggles.
Skin protection:	Not required under suitable use as setting the cartridge on the printer. However, in case of bottle container, wear protective clothing.
Hygiene measures:	Wash hands after handling. In case contact with clothing, wash before reuse. Do not eat, drink or smoke in handling or storage area.
Environmental exposure control:	Avoid release to the environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear Liquid
Odor:	None
pH:	About 7-8
Boiling point:	No data available
Melting point:	No data available
Flash point:	Not detected until 100 deg.C / 230 deg.F (closed cup, ASTM D3278)
Autoflammability:	None
Explosive properties:	None
Oxidizing properties:	None
Vapor density:	No data available
Relative density:	About 1.0 at 20 deg.C
Solubility in water:	Complete
Solubility in fat:	No data available
Partition coefficient:	No data available
Viscosity:	No data available
Melting point:	No data available

9.2. Other information: No information

10. Stability and reactivity

10.1. Reactivity:	No reactivity under normal temperature
10.2. Chemical stability:	Stable under normal temperature
10.3. Possibility of hazardous reactions:	Not expected
10.4. Conditions to avoid:	High and freezing temperatures
10.5. Incompatible materials:	Oxidizers and explosives
10.6. Hazardous decomposition products:	None under normal temperature

11. Toxicological information

*Based on toxicology data of chemically similar material

11.1. Information on toxicological effects

Routes Of Overexposure:	Eye, skin, inhalation, and oral	
Acute toxicity:	Oral LD ₅₀	>2000mg/kg(Rat)*
	Dermal LD ₅₀	>2000mg/kg(Rat)*
	Inhalant LC ₅₀	No data available
Skin corrosion/irritation:	Non irritant (Rabbit, OECD404)*	
Serious eye damage/eye irritation:	Minimal irritant (Rabbit, OECD405)*	
Respiratory or skin sensitisation:	Non-sensitiser (Guinea Pig, OECD 406)*	
Germ cell mutagenicity:	Negative (by Ames Test)*	
Reproductive toxicity:	No data available	
Carcinogenicity:	None of the ingredients in this ink is listed by IARC as a carcinogen. (1,2A and 2B)	
STOT-single exposure:	Overexposure of eye may be mildly irritating. Overexposure of skin may cause irritation and in some people swelling and redness. Inhalation may result in respiratory irritation and anesthesia. Ingestion may cause an upset stomach.	
STOT-repeated exposure:	No data available	
Aspiration hazard:	No data available	

12. Ecological information

12.1. Toxicity:	No data available
12.2. Persistence and degradability:	No data available
12.3. Bioaccumulative potential:	No data available
12.4. Mobility in soil:	No data available
12.5. Results of PBT and vPvB assessment:	Has not carried out PBT and vPvB assessment.
12.6. Other adverse effects:	No data available

13. Disposal considerations

- 13.1. Waste treatment methods:
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

14. Transport information

- 14.1. UN Class/UN Number:
ADR/ADG/DOT, IMDG, or IATA : **Not regulated**
- 14.2. UN proper shipping name:
ADR/ADG/DOT, IMDG, or IATA : **Not regulated**
- 14.3. Transport hazard class(es):
ADR/ADG/DOT, IMDG, or IATA : **Not regulated**
- 14.4. Packing group:
ADR/ADG/DOT, IMDG, or IATA : **Not regulated**
- 14.5. Environmental hazards:
ADR/ADG/DOT, IMDG, or IATA : **Not regulated**
- 14.6. Special precautions for user: Transport and storage of the product in accordance with general precautions and instructions mentioned in this SDS.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code:
Not regulated

15. Regulatory information

EU Information:

Chemical Safety Assessment according to (EC)1907/2006:

This product has not carried out any Chemical Safety Assessment yet.

US Information:

Toxic Substances Control Act (TSCA): All components of this product are listed on the TSCA Inventory.

California Proposition 65: Not regulated

SARA TITLE III: Not regulated

Australia Information:

Hazardous statement: Not classified as hazardous according to NOHSC criteria.

International Information:

None of the ingredients in this ink is listed by IARC as a carcinogen. (1,2A and 2B)

16. Other information

List of relevant H-Statements: Nothing

The information in this Safety Data Sheet (SDS) is believed to be 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. It is subject to revision as additional knowledge and experience is gained. Roland DG does not warrant the completeness or accuracy of the information contained herein.