# Safety Data Sheet

CLEANING LIQUID FOR SOL INK, SL-CL
CLEANING LIQUID, (SL) 100ML
CLEANING LIQUID, (SL) 500ML

Revision: Version US_5.0
Revision Date: Jan-9-2024

## 1. Product and Company Identification

**Product name:** CLEANING LIQUID FOR SOL INK, SL-CL
CLEANING LIQUID, (SL) 100ML
CLEANING LIQUID, (SL) 500ML

**Use of the product:** Cleaning liquid

**Manufacturer:**

| | |
|---|---|
| Manufacturer's name: | Roland DG Corporation |
| Address: | 1-1-2 Shinmiyakoda, Hamana-ku, Hamamatsu-shi, Shizuoka-ken, 431-2103 |
| Phone: | + 81-53-484-1224 |
| FAX: | + 81-53-484-1226 |

**Importer/Supplier:**

| | |
|---|---|
| Supplier's name: | Roland DGA Corporation |
| Address: | 15363 Barranca Parkway Irvine, CA 92618 U.S.A. |
| Phone: | +1-949-727-2100 |
| FAX: | +1-949-727-2112 |
| E-mail: | |

**Emergency telephone:** +1-949-727-2100

**Date of issue:** Jan-9-2024

## 2. Hazard identification

### 2.1 Emergency Overview:

**Appearance and odor:** Clear Liquid and Slightly odour

**Classification according to GHS.**

| | |
|---|---|
| Flammable liquids | Category 4 |
| Skin corrosion/irritation | Category 2 |

**GHS label elements, including precautionary statements**

**Pictogram(s)**

**Signal Word:** Warning

**Hazard Statement:**

Combustible liquid.
Causes skin irritation.

**Precautionary statements — Prevention:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statements — Response:**

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing.

**Precautionary statements — Storage:**

Store in a well-ventilated place. Keep cool.

### 2.2. OSHA regulatory status

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### 2.3. Other hazards

Potential Health Effects:

| | |
|---|---|
| Eyes: | Contact with eye will be irritating. |
| Skin: | Contact with skin may cause irritation, swelling or redness, allergic sensitization. |
| Inhalation: | Exposure to vapors (mist) will cause respiratory irritation and anesthesia. |
| Ingestion: | May cause injury of mouth, throat, and stomach. |
| Chronic Health Hazards: | Repeated skin contact may cause a persistent irritation or dermatitis. |
| Carcinogenicity: | None of the ingredients in this cleaner is listed by IARC as a carcinogen. (1, 2A and 2B) |
| Others: | No information. |

See section 11 for more information.

### 2.4. Potential environmental effects

See section 12 for Ecological information.

## 3. Composition/information on ingredients

Chemical nature: mixture

| Composition | CAS No. | % By Weight | Classification (HCS) Hazard Communication Standard |
|---|---|---|---|
| Diethylene glycol diethyl ether | 112-36-7 | 35-45 | Skin Irrit. 2: H315 |
| Glycol ethers | CBI | 40-50 | Not classified as hazardous |
| Polyalkylene glycol monoalkyl ether | CBI | 20-30 | Not classified as hazardous |

## 4. First aid measures

### 4.1. First aid procedures

| | |
|---|---|
| Eyes: | In case of contact, immediately flush eyes with plenty of water for several 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. Note to physicians

May cause skin and eye irritation. Excessive inhalation of mist will cause respiratory irritation.

## 5. Firefighting measures

### 5.1. Flammable properties:

Combustible liquid under Hazard Communication Standard (HCS, U.S.A).
Flash Point: > 168.8deg.F

### 5.2. Extinguishing media

Suitable extinguishing media: Dry chemical, Foam, Carbon dioxide, Dry sand, Loaded stream in spray.
Unsuitable extinguishing media: High-pressure water jet

### 5.3. Protection of fire fighters

Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

Protective equipment and precautions for firefighters

Wear special chemical protective clothing and positive pressure self-contained breathing apparatus(SCBA).
Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.
Decontaminate or discard any clothing that may contain chemical residues.
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

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 for containment

Dike spilled product.

### 6.4. Methods for Clean-up

Sweep up material and dispose as waste following local regulations.

### 6.5. Other information

No information

### 6.6. Spill or leak statements by type of chemical

Eliminate all ignition sources. Use appropriate personal protective equipment (PPE). Absorb and/or contain spill with inert sand, then place in suitable container. For large spills; use water spray to disperse vapers and dilute spill to a non-flamable mixture. Do not flush to sewer. Prevent run-off from entering drains, sewers or waterways.

## 7. Handling and storage

### 7.1. Handling

Avoid contact with eyes, skin and clothing. Use proper ventilation and no fire in work place. Put protection wear that has electrical conductivity in case of work. Keep out of reach of children and do not drink.

**7.2. Storage**

Keep containers tightly closed. Do not store the product in high or freezing temperatures. Keep the product out of direct sunlight. Do not store the product with metals, amines, free radical initiators, oxidising agents.

## 8. Exposure controls/ personal protection

**8.1. Exposure Guidelines**

Occupational Exposure Limits:

Glycol Ethers:

[NIOSH] REL: TWA 100 ppm (600 mg/m3) STEL 150 ppm (900 mg/m3) [skin]
[OSHA] PEL: TWA 100 ppm (600 mg/m3) [skin]

**8.2. Engineering controls**

Provide general and/or local exhaust ventilation.

**8.3. Personal protective equipment (PPE)**

**Eye protection:**

Not required under suitable use as setting the cleaning liquid on the printer. However, in case of direct contact to the cleaning liquid, wear safety glasses or chemical splash goggles.

**Hand protection:**

Not required under suitable use as setting the cleaning liquid on the printer. However, in case of direct contact to the cleaning liquid, use protective gloves. Recommended impervious gloves is butyl rubber glove.

**Skin protection:**

Not required under suitable use as setting the cleaning liquid on the printer. However, in case of direct contact to the cleaning liquid, wear protective clothing.

**Respiratory protection:**

In case ventilation is insufficient, employee must use NIOSH approved air purifying respiratory equipment. Use a half facepiece respirator (with goggles) or full face-piece respirator (without goggles) filtered with organic vapor cartridge.For emergency and other conditions where the exposure guideline may be exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self contained air supply. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**General 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.

## 9. Physical and chemical properties

| | |
|---|---|
| appearance: | Clear Liquid |
| odor: | Slightly odour |
| odor threshold: | Not defined |
| pH: | Not applicable |
| melting point/freezing point: | No data available |
| initial boiling point and boiling range: | No data available |
| flash point: | > 168.8deg.F |
| evaporation rate: | No data available |
| flammability (solid, gas): | Not applicable |
| vapor pressure: | No data available |
| vapor density: | > 1 |

| | |
|---|---|
| specific gravity or relative density: | 0.95-1.05 |
| solubility in water: | soluble |
| partition coefficient: n-octanol/water: | No data available |
| auto-ignition temperature: | No data available |
| decomposition temperature: | No data available |
| volatile organic compounds (VOC) content: | 980 g /L |

## 10. Stability and Reactivity

**10.1 Reactivity:**

No reactivity under normal temperature.

**10.2. Possibility of hazardous reactions:**

Not expected.

**10.3. Chemical stability:**

Stable under normal temperature.

**10.4 Conditions to avoid:**

Elevated temperatures/heat, UV light, when not in use.

**10.5 Incompatible materials:**

Avoid contact with acids, amines, free radical initiators, oxidizing agents.

**10.6 Hazardous decomposition products:**

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

## 11. Toxicological information

**Acute toxicity:** None of the ingredients in this ink is classified as acute toxicant.

**Serious eye damage/eye irritation:**

no data available.

**Skin corrosion/irritation:**

Causes skin irritation.

- Diethylene glycol diethyl ether

**Respiratory or skin sensitisation:**

no data available.

**Germ cell mutagenicity:**

no data available.

**Reproductive toxicity:**

no data available.

**Carcinogenicity:**

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

**Specific target organ toxicity - single exposure, (STOT-SE):**

no data available.

**Specific target organ toxicity - repeat exposure, (STOT-RE):**
no data available.

**Aspiration hazard:**
no data available.

## 12. Ecological information

**Ecotoxicity:** No data available.

**Persistence/Degradability:**
No data available

**Bioaccumulation/Accumulation:**
No data available

**Mobility in environment media:**
No data available

**Other adverse effects:**
No data available

## 13. Disposal considerations

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**
ADR/ADG/DOT, IMDG, or IATA : 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

**Federal Regulations**

**Toxic Substance Control Act (TSCA):**

All components of this product are listed on the TSCA Inventory.
This product contains diethylene glycol diethyl ether that is subject to TSCA Section 5 SNUR prescribed 40 CFR 721. 10229 and to TSCA Section 12(b) export notification requirements.

**SARA Title III Rules**

**Section 313/312 Hazard Classes**

- ☐ Explosive
- ☑ Flammable (gases, aerosols, liquids, or solids)
- ☐ Oxidizer (liquid, solid, or gas)
- ☐ Self-reactive
- ☐ Pyrophoric (liquid or solid)
- ☐ Pyrophoric Gas
- ☐ Self-heating
- ☐ Organic peroxide
- ☐ Corrosive to metal
- ☐ Gas under pressure (compressed gas)
- ☐ In contact with water emits flammable gas
- ☐ Combustible Dust
- ☐ Hazard not otherwise classified
- ☐ Acute toxicity (any route of exposure)
- ☑ Skin corrosion or irritation
- ☐ Serious eye damage or eye irritation
- ☐ Respiratory or skin sensitization
- ☐ Germ cell mutagenicity
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☐ Specific target organ toxicity (single or repeated exposure)
- ☐ Aspiration hazard
- ☐ Simple Asphyxiant
- ☐ Hazard not otherwise classified

**Section 302 Extreamly Hazardous Substances (EHS)**

None of the ingredients are listed.

**Section 313 Toxic Chemicals**

Glycol Ethers (N230)

**CERCLA Hazardous Substances**

Glycol Ethers (N230) RQ†

† - There is no RQ assigned to this broad class, although the class is a CERCLA hazardous substances. Refer to 50 Federal Register 13456 (April 4, 1985).

**RCRA (Hazardous waste code)**

None Assigned

**State Regulations**

**California Propostion 65:**

None of the ingredients are listed.

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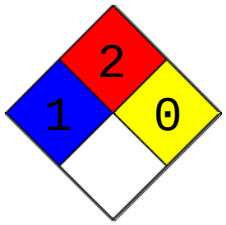
## 16. Other information

**NFPA Rating (NFPA 704):**

NFPA Health Hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Flammability: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA Instability: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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