

Revision date: Mar 31, 2014 Version: 2.0 Print date: Mar 31, 2014

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****CLEANING LIQUID FOR SOL INK, SL-CL; CLEANING LIQUID, (SL) 100 ml; CLEANING LIQUID, (SL) 500 ml****1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture:**

Inkjet Printing
 Identified uses: Inkjet Printing
 Restricted to professional users.
 Uses advised against -

1.3. Details of the supplier of the safety data sheet**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

Roland DG Corporation
 1-6-4 Shinmiyakoda, Kita-ku, Hamamatsu-shi
 431-2103 Shizuoka-ken, JAPAN
Telephone: +81-53-484-1224
Telefax: +81-53-484-1226
E-mail: info@rolanddg.be
Website: www.rolanddg.be
E-mail (competent person): info@rolanddg.be

1.4. Emergency telephone number

Supplier - Importer (EU) Roland DG Benelux N.V. Houtstraat 3, B-2260 - Westerlo, Belgium , 24h: +49 228 19240 Antipoison Center Bonn , +32 14 575 911 (Only available during office hours.)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]:**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	

Classification according to Directive 67/548/EEC or 1999/45/EC:

Irritating to skin.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]****Hazard pictograms:****GHS07**

Exclamation mark

Signal word: Warning

hazard statements for health hazards	
H315	Causes skin irritation.

Precautionary statements Response	
P302 + P352.1	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.

Revision date: Mar 31, 2014 Version: 2.0 Print date: Mar 31, 2014

Labelling (67/548/EEC or 1999/45/EC)**Hazard pictograms:****Xi**
Irritant**Hazard statements**

R38 Irritating to skin.

2.3. Other hazards**Adverse physicochemical effects:**

This material is combustible, but will not ignite readily.

Adverse human health effects and symptoms:

No known significant effects or critical hazards.

Adverse environmental effects:

No known significant effects or critical hazards.

SECTION 3: Composition / information on ingredients**3.2. Mixtures****Description:**

The product is a mixture of non-hazardous and the following hazardous substances

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to 67/548/EEC Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 112-36-7 EC No.: 203-963-7 REACH No.: 01-211996-9946-13-0000	bis(2-ethoxyethyl) ether Skin Irrit. 2 Warning H315 Xi; R38	35 – 60 Wt %

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Provide fresh air.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Consult physician immediately.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion:

Do NOT induce vomiting. Consult physician immediately.

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

— No data available —

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

— No data available —

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media:**Water spray, Carbon dioxide (CO₂), Foam, Dry extinguishing powder

Revision date: Mar 31, 2014 Version: 2.0 Print date: Mar 31, 2014

5.2. Special hazards arising from the substance or mixture

— No data available —

5.3. Advice for firefighters

Wear full chemical protective clothing. Use appropriate respiratory protection.

5.4. Additional information

— No data available —

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

See protective measures under point 7 and 8.
Provide adequate ventilation.

6.1.2. For emergency responders

— No data available —

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Treat the recovered material as prescribed in the section on waste disposal.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Disposal: see section 13
Personal protection equipment: see section 8

6.5. Additional information

— No data available —

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Use only in well-ventilated areas.
Open and handle container with care.
All work processes must always be designed so that the following is as low as possible: Inhalation, Skin contact, Eye contact.
When using do not eat, drink, smoke, sniff.

Fire prevent measures:

Keep away from sources of ignition. - No smoking.
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep/Store only in original container. Conditions to avoid: High and freezing temperatures. Protect from sunlight.

Hints on storage assembly:

Do not store together with: Oxidising agent
Materials to avoid: Metal, Oxidising agent, Amines

Storage class: 10

7.3. Specific end use(s)

Recommendation:

Inkjet Printing

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

— No data available —

Revision date: Mar 31, 2014 Version: 2.0 Print date: Mar 31, 2014

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

8.2.2. Personal protection equipment

Eye/face protection:

Eye protection: not required. In case of suitable use

Skin protection:

Hand protection: Hand protection: not required. In case of suitable use

Respiratory protection:

Provide adequate ventilation as well as local exhaustion at critical locations.

Respiratory protection necessary at: insufficient ventilation, insufficient exhaust

Filtering device (full mask or mouthpiece) with filter: with organic vapor cartridge

Other protection measures:

Protective clothing: Body protection: not required.

General health and safety measures: Thorough skin-cleansing after handling the product. Wash contaminated clothing prior to re-use. Avoid contact with skin, eyes and clothes.

8.2.3. Environmental exposure controls

— No data available —

8.3. Additional information

DNEL: Workers - hazard via inhalation route

Dipropylene glycol monomethyl ether (CAS 34590-94-8): Long term term exposure: 310 mg/m³

Triethylene glycol monomethyl ether (CAS 112-35-6): Long term term exposure: 156 mg/m³

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid

Colour: clear

Odour: slightly

Safety relevant basis data

		at °C	Method	remark
pH	<i>not determined</i>		No data available	
Melting point/freezing point	<i>not determined</i>		No data available	
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>		No data available	
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	71 °C		DIN 51755 part 1	
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	1.3 - ≈ 10.4 Vol-%		of Dipropylene glycol monomethyl ether	
Vapour pressure	<i>not determined</i>		No data available	
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>		No data available	
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>		No data available	
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

Water solubility: soluble

Flammability (solid/gas): not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal temperature (20°C, 1013 Pa)

Revision date: Mar 31, 2014 Version: 2.0 Print date: Mar 31, 2014

10.2. Chemical stability

Stable under normal temperature (20°C, 1013 Pa)

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

High and freezing temperatures

10.5. Incompatible materials

Oxidizers and explosives

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

LD50 > 2500 mg/kg (Rat)*

Acute dermal toxicity:

LD50 > 2000 mg/kg (Rat)*

Acute inhalation toxicity:

LC50: No data available.

Skin corrosion/irritation:

Irritant effect on the skin: slightly irritant (Methode: Rabbit OECD 404)*

Eye damage/irritation:

Irritant effect on the eye: slightly irritant but not relevant for classification. (Methode: Rabbit OECD 405)*

Respiratory or skin sensitisation:

not sensitising. (LLNA, OECD 429)*

Germ cell mutagenicity:

In vitro mutagenicity: Ames test negative.*

Carcinogenicity:

No indication of human carcinogenicity.

STOT-single exposure:

No information available.

STOT-repeated exposure:

No information available.

Additional information:

Specific symptoms in animal studies: There are no data available on the preparation/mixture itself.
Other information:* Based on toxicology data of chemically similar material.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

No information available.

Terrestrial toxicity:

No information available.

Effects in sewage plants:

No information available.

12.2. Persistence and degradability

Additional information:

Further ecological information: No information available.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

Revision date: Mar 31, 2014 Version: 2.0 Print date: Mar 31, 2014

12.6. Other adverse effects

— No data available —

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Consult the appropriate local waste disposal expert about waste disposal.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Control report for waste code/ waste marking according to EAKV: Do not allow to enter into surface water or drains.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

08 03 17 * waste printing toner containing dangerous substances

*: Evidence for disposal must be provided.

Waste code packaging:

15 01 10 packaging containing residues of or contaminated by dangerous substances

13.2. Additional information

— No data available —

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

— No data available —

14.2. UN proper shipping name

— No data available —

14.3. Transport hazard class(es)

— No data available —

14.4. Packing group

— No data available —

14.5. Environmental hazards

— No data available —

14.6. Special precautions for user

— No data available —

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

— No data available —

Additional information:

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

— No data available —

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

15.3. Additional information

— No data available —

Revision date: Mar 31, 2014 Version: 2.0 Print date: Mar 31, 2014

SECTION 16: Other information**16.1. Indication of changes**

- 2.1. Classification of the substance or mixture
- 2.2. Label elements
- 3.2. Mixtures
- 8.1 Control parameters
- 8.2 Exposure controls
- 11.1. Information on toxicological effects

16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu

16.3. Key literature references and sources for data

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures
 Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008
 Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations
 Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances
 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]**Classification according to Regulation (EC) No. 1272/2008 [CLP]:**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements (R-phrases)	
R38	Irritating to skin.

Hazard statements	
H315	Causes skin irritation.

16.6. Training advice

— No data available —

16.7. Additional information

This Safety Data Sheet was drawn up by TÜV SÜD Industrie Service GmbH (see below), based on data from the supplier, who is named in section 1 and who is responsible for this document.

TÜV SÜD Industrie Service GmbH
 Department Environmental Service
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 80686 Munich - Germany

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.