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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product code 22387
Product name Light Cyan
Product category Optimizer Eco Solvent Ink for Roland

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

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1.4 Emergency telephone number

Giftinformationszentrum Mainz, Germany
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Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H336)

2.2 Label elements



Signal Word
Danger

Hazard Statements

H318 - Causes serious eye damage
H336 - May cause drowsiness or dizziness

Precautionary Statements - EU (§28, 1272/2008)

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing
 P280 - Wear protective gloves/protective clothing/eye protection/face protection

2.3 Other Hazards

General Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Component	EC No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH No.	Note
Diethylene glycol diethyl ether	203-963-7	112-36-7	30 - 60	Eye Irrit. 2 (H319)	No data available	
Butyrolactone	202-509-5	96-48-0	10 - 30	Acute Tox. 4 (H302) Eye Dam. 1 (H318) STOT SE 3 (H336)	No data available	1
Triethylene glycol monobutyl ether	205-592-6	143-22-6	1 - 5	Eye Dam. 1 (H318)	No data available	
Dimethyl Succinate	203-419-9	106-65-0	1 - 5	Not Classified	No data available	1
Dimethyl Glutarate	214-277-2	1119-40-0	1 - 5	Not Classified	No data available	1
Ethylene glycol monobutyl ether acetate	203-933-3	112-07-2	1 - 5	Acute Tox. 4 (H312) Acute Tox. 4 (H332)	No data available	1

Note

1. Substance with a Community workplace exposure limit

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

Section 4: FIRST AID MEASURES

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 if irritation develops and persists.

Skin Contact

Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) 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

Do NOT induce vomiting. Call a physician or poison control center 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.

Section 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.

Unsuitable Extinguishing Media

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.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. 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 material 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 more information.

Section 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 use(s)

Exposure Scenario

No information available.

Risk Management Methods
(RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

Component	The United Kingdom
Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 50 ppm STEL: 332 mg/m ³ TWA: 20 ppm TWA: 133 mg/m ³ Skin
Component	France
Ethylene glycol monobutyl ether acetate 112-07-2	TWA/VME: 2 ppm (indicative limit) TWA/VME: 13.3 mg/m ³ (indicative limit) STEL/VLCT: 30 ppm (indicative limit) STEL/VLCT: 199.8 mg/m ³ (indicative limit) Skin
Component	Germany
Dimethyl Succinate	TWA/AGW: 1.2 ppm

106-65-0	TWA/AGW: 8 mg/m ³
Dimethyl Glutarate	TWA/AGW: 1.2 ppm
1119-40-0	TWA/AGW: 8 mg/m ³
Ethylene glycol monobutyl ether acetate	TWA/MAK: 10 ppm
112-07-2	TWA/MAK: 66 mg/m ³
	Peak: 20 ppm
	Peak: 132 mg/m ³
	TWA/AGW: 20 ppm
	TWA/AGW: 130 mg/m ³
	Skin
Component	Spain
Ethylene glycol monobutyl ether acetate	STEL/VLA-EC: 50 ppm
112-07-2	STEL/VLA-EC: 333 mg/m ³
	TWA/VLA-ED: 20 ppm
	TWA/VLA-ED: 133 mg/m ³
	Skin
Component	Italy
Ethylene glycol monobutyl ether acetate	TWA: 20 ppm
112-07-2	TWA: 133 mg/m ³
	STEL: 50 ppm
	STEL: 333 mg/m ³
	Skin
Component	Portugal
Ethylene glycol monobutyl ether acetate	TWA/VLE-MP: 20 ppm
112-07-2	
Component	The Netherlands
Ethylene glycol monobutyl ether acetate	STEL: 333 mg/m ³
112-07-2	TWA: 135 mg/m ³
	Skin
Component	Finland
Ethylene glycol monobutyl ether acetate	TWA: 20 ppm
112-07-2	TWA: 130 mg/m ³
	STEL: 50 ppm
	STEL: 330 mg/m ³
	Skin
Component	Denmark
Ethylene glycol monobutyl ether acetate	TWA: 20 ppm
112-07-2	TWA: 130 mg/m ³
	Skin
Component	Austria
Ethylene glycol monobutyl ether acetate	STEL/KZW: 40 ppm
112-07-2	STEL/KZW: 270 mg/m ³
	TWA/TMW: 20 ppm
	TWA/TMW: 133 mg/m ³
	Skin
Component	Switzerland
Ethylene glycol monobutyl ether acetate	STEL/KZW: 20 ppm
112-07-2	STEL/KZW: 132 mg/m ³
	TWA/MAK: 10 ppm
	TWA/MAK: 66 mg/m ³
	Skin
Component	Poland
Ethylene glycol monobutyl ether acetate	NDSch: 300 mg/m ³
112-07-2	TWA/ND: 100 mg/m ³
	Skin
Component	Norway
Ethylene glycol monobutyl ether acetate	TWA: 10 ppm

112-07-2	TWA: 65 mg/m ³ Skin
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Component	Ireland
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ Skin

Component	Australia TWA
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³

Component	Australia STEL
Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 50 ppm STEL: 333 mg/m ³

Derived No Effect Level (DNEL) No information available.
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.

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.

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Colored
Odor	No information available	Odor Threshold	No information available
Property	Values	Remarks • Method	
pH		No data available	
Melting point/freezing point		No data available	
Boiling point/Boiling Range	> 149 °C / 300 °F		
Flash Point	82 °C / 180 °F	Closed cup (Minimum)	
Evaporation rate		No data available	
Flammability Limit in Air			
Upper flammability limit		No data available	
Lower flammability limit		No data available	
Vapor Pressure		No data available	
Vapor Density		No data available	
Specific Gravity	0.98		

Water Solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

9.2 Other information

Softening Point No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information 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 agent.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO₂). Carbon monoxide.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute Toxicity**

Inhalation	There is no data for this product.
Eye Contact	There is no data for this product.
Skin Contact	There is no data for this product.
Ingestion	There is no data for this product.

Unknown Acute Toxicity 62.6 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,358.00 mg/kg
ATEmix (dermal)	16,708.00 mg/kg
ATEmix (inhalation-dust/mist)	31.00 mg/L
ATEmix (inhalation-vapor)	227.00 mg/L

Unknown Acute Toxicity

62.6 % of the mixture consists of ingredient(s) of unknown toxicity.
 58.14 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
 58.14 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
 62.6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
 62.6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
 62.6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	Oral LD50
Butyrolactone 96-48-0	1540 mg/kg (Rat)
Triethylene glycol monobutyl ether 143-22-6	5300 mg/kg (Rat)
Dimethyl Succinate 106-65-0	>5000 mg/kg (Rat)
Dimethyl Glutarate 1119-40-0	8191 mg/kg (Rat)
Ethylene glycol monobutyl ether acetate 112-07-2	1600 mg/kg (Rat)

Component	LD50 Dermal
Triethylene glycol monobutyl ether 143-22-6	3480 mg/kg (Rabbit)
Dimethyl Succinate 106-65-0	>5000 mg/kg (Rabbit)
Ethylene glycol monobutyl ether acetate 112-07-2	1480 mg/kg (Rabbit)

Component	Inhalation LC50
Butyrolactone 96-48-0	>2.68 mg/L (Rat) 4 h
Dimethyl Glutarate 1119-40-0	>5.6 mg/L (Rat) 4 h

Skin corrosion/irritation	There is no data for this product.
Eye damage/irritation	There is no data for this product.
Sensitisation	There is no data for this product.
Mutagenic Effects	There is no data for this product.
Carcinogenic effects	There is no data for this product.
Reproductive Effects	There is no data for this product.

STOT - single exposure	There is no data for this product.
STOT - repeated exposure	There is no data for this product.
Aspiration hazard	There is no data for this product.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

None known

Unknown Aquatic Toxicity

0.01 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Butyrolactone 96-48-0	72h EC50 Desmodesmus subspicatus: 360 mg/L 96h EC50 Desmodesmus subspicatus: 79 mg/L
Triethylene glycol monobutyl ether 143-22-6	72h EC50 Desmodesmus subspicatus: 500 mg/L
Ethylene glycol monobutyl ether acetate 112-07-2	72h EC50 Desmodesmus subspicatus: >500 mg/L

Component	Fish
Butyrolactone 96-48-0	96h LC50 Leuciscus idus: 220 - 460 mg/L [static]
Triethylene glycol monobutyl ether 143-22-6	96h LC50 Leuciscus idus: 2200 - 4600 mg/L [static] 96h LC50 Pimephales promelas: 2400 mg/L [static] 96h LC50 Pimephales promelas: 2400 mg/L [static]
Dimethyl Succinate 106-65-0	96h LC50 Brachydanio rerio: 50 - 100 mg/L [static]
Dimethyl Glutarate 1119-40-0	96h LC50 Pimephales promelas: 19.6 - 26.2 mg/L [static]

Component	Crustacea
Butyrolactone 96-48-0	48h EC50 Daphnia magna Straus: >500 mg/L
Triethylene glycol monobutyl ether 143-22-6	48h EC50 Daphnia magna: 500 mg/L
Dimethyl Glutarate 1119-40-0	48h EC50 Daphnia magna: 122.1 - 163.5 mg/L

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

Component	Partition coefficient
Butyrolactone 96-48-0	-0.566
Triethylene glycol monobutyl ether 143-22-6	0.51
Dimethyl Succinate 106-65-0	0.19
Ethylene glycol monobutyl ether acetate 112-07-2	1.51

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.

Section 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.

Section 14: TRANSPORT INFORMATION

ADR

14.2 Proper Shipping Name

Not Regulated
Printing Ink

ICAO / IATA / IMDG / IMO

14.2 Proper Shipping Name

Not Regulated
Printing Ink

Section 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

No information available.

Section 16: OTHER INFORMATION**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under sections 2 and 3**

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H318 - Causes serious eye damage

H302 - Harmful if swallowed

H336 - May cause drowsiness or dizziness

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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.

End of Safety Data Sheet