

SAFETY DATA SHEET

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 Revision Number

 Apr-21-2016
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 1.1

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

1.1 Product identifier

Product code 22416
Product name Black

Product category Eco Solvent Ink for Roland (OSI-RO)

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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Germany

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For further information, please contact

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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 (FC) No 1272/2008

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



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

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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
Ethylene glycol monobutyl ether acetate	203-933-3	112-07-2	5 - 10	Acute Tox. 4 (H312) Acute Tox. 4 (H332)	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
Carbon black	215-609-9 435-640-3	1333-86-4	1 - 5	Not Classified	No data available	1
Dimethyl Glutarate	214-277-2	1119-40-0	1 - 5	Not Classified	No data available	1

Note

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.

^{1.} Substance with a Community workplace exposure limit

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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

The information required is contained in this Safety Data Sheet.

(RMM)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

Component	The United Kingdom
Ethylene glycol monobutyl ether acetate	STEL: 50 ppm
112-07-2	STEL: 332 mg/m ³
	TWA: 20 ppm
	TWA: 133 mg/m ³
	Skin
Carbon black	STEL: 7 mg/m ³
1333-86-4	TWA: 3.5 mg/m ³

Component	France
Ethylene glycol monobutyl ether acetate	TWA/VME: 2 ppm (indicative limit)
112-07-2	TWA/VME: 13.3 mg/m³ (indicative limit)
	STEL/VLCT: 30 ppm (indicative limit)
	STEL/VLCT: 199.8 mg/m³ (indicative limit)
	Skin

Component

TWA/VME: 3.5 mg/m³ Carbon black 1333-86-4 Component Germany Ethylene glycol monobutyl ether acetate TWA/MAK: 10 ppm 112-07-2 TWA/MAK: 66 mg/m³ Peak: 20 ppm Peak: 132 mg/m³ TWA/AGW: 20 ppm TWA/AGW: 130 mg/m³ Skin Dimethyl Succinate TWA/AGW: 1.2 ppm TWA/AGW: 8 mg/m³ 106-65-0 Dimethyl Glutarate TWA/AGW: 1.2 ppm 1119-40-0 TWA/AGW: 8 mg/m³ Component Spain STEL/VLA-EC: 50 ppm Ethylene glycol monobutyl ether acetate 112-07-2 STEL/VLA-EC: 333 mg/m³ TWA/VLA-ED: 20 ppm TWA/VLA-ED: 133 mg/m³ Skin Carbon black TWA/VLA-ED: 3.5 mg/m³ 1333-86-4 Component Italy Ethylene glycol monobutyl ether acetate TWA: 20 ppm 112-07-2 TWA: 133 mg/m³ STEL: 50 ppm STEL: 333 mg/m³ Skin Portugal Component Ethylene glycol monobutyl ether acetate TWA/VLE-MP: 20 ppm 112-07-2 Carbon black TWA/VLE-MP: 3.5 mg/m³ 1333-86-4 Component The Netherlands Ethylene glycol monobutyl ether acetate STEL: 333 mg/m³ 112-07-2 TWA: 135 mg/m³ Skin Finland Component Ethylene glycol monobutyl ether acetate TWA: 20 ppm 112-07-2 TWA: 130 mg/m³ STEL: 50 ppm STEL: 330 mg/m³ Skin Carbon black TWA: 3.5 mg/m³ STEL: 7 mg/m³ 1333-86-4 Denmark Component Ethylene glycol monobutyl ether acetate TWA: 20 ppm 112-07-2 TWA: 130 mg/m³ Skin Carbon black TWA: 3.5 mg/m³ 1333-86-4 Component Austria STEL/KZW: 40 ppm Ethylene glycol monobutyl ether acetate 112-07-2 STEL/KZW: 270 mg/m³ TWA/TMW: 20 ppm TWA/TMW: 133 mg/m³ Skin

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/NDS: 100 mg/m ³
	Skin
Carbon black	TWA/NDS: 4.0 mg/m³ (total inhalable dust)
1333-86-4	

Component	Norway
Ethylene glycol monobutyl ether acetate	TWA: 10 ppm
112-07-2	TWA: 65 mg/m ³
	Skin
Carbon black	TWA: 3.5 mg/m ³
1333-86-4	_

Component	Ireland
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
Carbon black	TWA: 3.5 mg/m ³
1333-86-4	STEL: 7 mg/m ³

Component	Australia TWA
Ethylene glycol monobutyl ether acetate	TWA: 20 ppm
112-07-2	TWA: 133 mg/m ³
Carbon black	TWA: 3 mg/m ³
1333-86-4	

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

Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)

No information available. 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.

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, **Skin Protection**

as appropriate, to prevent skin contact.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved **Respiratory Protection**

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.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State Liquid **Appearance** Colored

Odor Threshold Odor No information available No information available

Property Remarks • Method Values

No data available На No data available

Melting point/freezing point

> 149 °C / 300 °F **Boiling point/Boiling Range**

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 1

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. There is no data for this product. **Eve Contact** There is no data for this product. **Skin Contact**

Ingestion There is no data for this product.

Unknown Acute Toxicity 53.9 % 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)
 2,372.00 mg/kg

 ATEmix (dermal)
 8,117.00 mg/kg

 ATEmix (inhalation-dust/mist)
 9.46 mg/L

 ATEmix (inhalation-vapor)
 69.00 mg/L

Unknown Acute Toxicity

53.9 % of the mixture consists of ingredient(s) of unknown toxicity.

49.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

49.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity. 53.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

53.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

53.9 % 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)
Ethylene glycol monobutyl ether acetate 112-07-2	1600 mg/kg (Rat)
Triethylene glycol monobutyl ether 143-22-6	5300 mg/kg (Rat)
Dimethyl Succinate 106-65-0	>5000 mg/kg(Rat)
Carbon black 1333-86-4	>15400 mg/kg(Rat)
Dimethyl Glutarate 1119-40-0	8191 mg/kg (Rat)

Component	LD50 Dermal
Ethylene glycol monobutyl ether acetate 112-07-2	1480 mg/kg (Rabbit)
Triethylene glycol monobutyl ether 143-22-6	3480 mg/kg (Rabbit)
Dimethyl Succinate 106-65-0	>5000 mg/kg (Rabbit)
Carbon black 1333-86-4	>3 g/kg(Rabbit)

Component	Inhalation LC50
Butyrolactone 96-48-0	>2.68 mg/L (Rat) 4 h
Dimethyl Glutarate	>5.6 mg/L(Rat)4 h
1119-40-0	(1.5.1.)

Skin corrosion/irritationThere is no data for this product.Eye damage/irritationThere is no data for this product.SensitisationThere is no data for this product.Mutagenic EffectsThere is no data for this product.Carcinogenic effectsThere is no data for this product.Reproductive EffectsThere is no data for this product.

STOT - single exposure
STOT - repeated exposure
Aspiration hazard

There is no data for this product.
There is no data for this product.
There is no data for this product.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

None known

Unknown Aquatic Toxicity

0.03 % 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
Ethylene glycol monobutyl ether acetate 112-07-2	72h EC50 Desmodesmus subspicatus: >500 mg/L
Triethylene glycol monobutyl ether 143-22-6	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 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
Carbon black 1333-86-4	24h EC50 Daphnia magna: >5600 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
Ethylene glycol monobutyl ether acetate 112-07-2	1.51
Triethylene glycol monobutyl ether 143-22-6	0.51
Dimethyl Succinate 106-65-0	0.19

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

13.1 Waste treatment methods

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Waste from Residues / Unused Contain and dispose of waste according to local regulations.

Products

Empty containers should be taken to an approved waste handling site for recycling or **Contaminated Packaging**

disposal.

Section 14: TRANSPORT INFORMATION

ADR Not Regulated 14.2 Proper Shipping Name Printing Ink

Not Regulated ICAO / IATA / IMDG / IMO 14.2 Proper Shipping Name 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 eve damage

H302 - Harmful if swallowed

H336 - May cause drowsiness or dizziness

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) TWA STEL (Short Term Exposure Limit) **STEL**

Ceiling Maximum limit value

Apr-21-2016 **Revision Date**

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

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