

SAFETY DATA SHEET

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 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 24649
Product name Yellow

Product category Optimizer IV Eco Solvent Ink for Roland XR, XF, RF, VS-i Series

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

DATAPLOT GmbH Gutenbergstraße 15 D-24558 Henstedt-Ulzburg

Germany

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For further information, please contact

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1.4 Emergency telephone number

Giftinformationszentrum Mainz, Germany

Tel: +49 6131 19240

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)
Reproductive toxicity	Category 1B - (H360)

2.2 Label elements



Signal Word Danger

Hazard Statements

H318 - Causes serious eye damage

H360 - May damage fertility or the unborn child

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

24649 - Yellow

do. Continue rinsing

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P202 - Do not handle until all safety precautions have been read and understood

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
Tetraglyme	205-594-7	143-24-8	10 - 30	Repr. 1B (H360)	No data available	
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
Propylene glycol monomethyl ether acetate	203-603-9	108-65-6	1 - 5	Flam. Liq. 3 (H226)	No data available	1

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.

Wash off immediately with soap and plenty of water for at least 15 minutes. Remove **Skin Contact**

contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention. 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

Inhalation

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

24649 - Yellow

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

Risk Management Methods

Th

No information available.

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
Propylene glycol monomethyl ether acetate	STEL: 100 ppm
108-65-6	STEL: 548 mg/m ³
	TWA: 50 ppm
	TWA: 274 mg/m ³
	Skin

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

Propylene glycol monomethyl ether acetate

TWA/VME: 50 ppm (restrictive limit)
TWA/VME: 275 mg/m³ (restrictive limit)
STEL/VLCT: 100 ppm (restrictive limit)
STEL/VLCT: 550 mg/m³ (restrictive limit)
STEL/VLCT: 550 mg/m³ (restrictive limit)
Skin

Component	Germany
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
Propylene glycol monomethyl ether acetate	TWA/MAK: 50 ppm
108-65-6	TWA/MAK: 270 mg/m ³
	Peak: 50 ppm
	Peak: 270 mg/m ³
	TWA/AGW: 50 ppm
	TWA/AGW: 270 mg/m ³

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
Propylene glycol monomethyl ether acetate	STEL/VLA-EC: 100 ppm
108-65-6	STEL/VLA-EC: 550 mg/m ³
	TWA/VLA-ED: 50 ppm
	TWA/VLA-ED: 275 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
Propylene glycol monomethyl ether acetate	TWA: 50 ppm
108-65-6	TWA: 275 mg/m ³
	STEL: 100 ppm
	STEL: 550 mg/m ³
	Skin

Component	Portugal
Ethylene glycol monobutyl ether acetate 112-07-2	TWA/VLE-MP: 20 ppm

Component	The Netherlands
Ethylene glycol monobutyl ether acetate	STEL: 333 mg/m ³
112-07-2	TWA: 135 mg/m³
Propylene glycol monomethyl ether acetate	Skin TWA: 550 mg/m³
108-65-6	TWA. 550 Hig/Hig

Component	Finland
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 130 mg/m³
	STEL: 50 ppm STEL: 330 mg/m³ Skin
Propylene glycol monomethyl ether acetate 108-65-6	TWA: 50 ppm TWA: 270 mg/m³ STEL: 100 ppm

Component

STEL: 550 mg/m³ Skin Component Denmark Ethylene glycol monobutyl ether acetate TWA: 20 ppm 112-07-2 TWA: 130 mg/m³ Skin Propylene glycol monomethyl ether acetate TWA: 50 ppm TWA: 275 mg/m³ 108-65-6 Skin 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 Propylene glycol monomethyl ether acetate STEL/KZW: 100 ppm STEL/KZW: 550 mg/m³ 108-65-6 TWA/TMW: 50 ppm TWA/TMW: 275 mg/m³ Skin Switzerland Component Ethylene glycol monobutyl ether acetate STEL/KZW: 20 ppm 112-07-2 STEL/KZW: 132 mg/m³ TWA/MAK: 10 ppm TWA/MAK: 66 mg/m³ Skin Propylene glycol monomethyl ether acetate STEL/KZW: 50 ppm 108-65-6 STEL/KZW: 275 mg/m³ TWA/MAK: 50 ppm TWA/MAK: 275 mg/m³ Poland Component Ethylene glycol monobutyl ether acetate NDSCh: 300 mg/m³ 112-07-2 TWA/NDS: 100 mg/m3 Skin Propylene glycol monomethyl ether acetate NDSCh: 520 mg/m³ TWA/NDS: 260 mg/m3 108-65-6 Component Norway Ethylene glycol monobutyl ether acetate TWA: 10 ppm 112-07-2 TWA: 65 mg/m³ Skin Propylene glycol monomethyl ether acetate TWA: 50 ppm 108-65-6 TWA: 270 mg/m³ Skin Component Ireland Ethylene glycol monobutyl ether acetate TWA: 20 ppm 112-07-2 TWA: 133 mg/m³ STEL: 50 ppm STEL: 333 mg/m³ Skin Propylene glycol monomethyl ether acetate TWA: 50 ppm 108-65-6 TWA: 275 mg/m³ STEL: 100 ppm STEL: 550 mg/m³ Skin Australia TWA Component Ethylene glycol monobutyl ether acetate TWA: 20 ppm 112-07-2 TWA: 133 mg/m³ Propylene glycol monomethyl ether acetate TWA: 50 ppm 108-65-6 TWA: 274 mg/m³ Australia STEL

Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 50 ppm STEL: 333 mg/m ³
Propylene glycol monomethyl ether acetate 108-65-6	STEL: 100 ppm STEL: 548 mg/m³

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

No information available. No information available.

(PNEC)

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

Eve/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

No data available

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 64 °C / 147 °F Closed cup (Minimum)

Evaporation rateNo data available

Flammability Limit in Air

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor PressureNo data availableVapor DensityNo data available

Specific Gravity 0.98

Water SolubilityNo data availableSolubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data availableAutoignition TemperatureNo data availableDecomposition temperatureNo data availableKinematic viscosityNo data available

No data available

Dynamic viscosity

Explosive Properties

No data available

9.2 Other information

Oxidizing Properties

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

InhalationThere is no data for this product.Eye ContactThere is no data for this product.Skin ContactThere is no data for this product.IngestionThere is no data for this product.

Unknown Acute Toxicity 42.81 % 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) 4,201.00 mg/kg
ATEmix (dermal) 11,660.00 mg/kg
ATEmix (inhalation-dust/mist) 12.10 mg/L
ATEmix (inhalation-vapor) 89.00 mg/L

Unknown Acute Toxicity

42.81 % of the mixture consists of ingredient(s) of unknown toxicity.

31.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

41.8 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

42.81 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

42.81 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

42.81 % 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)
Tetraglyme 143-24-8	5140 mg/kg (Rat)
Ethylene glycol monobutyl ether acetate 112-07-2	1600 mg/kg (Rat)
Propylene glycol monomethyl ether acetate 108-65-6	8532 mg/kg (Rat)

Component	LD50 Dermal
Ethylene glycol monobutyl ether acetate 112-07-2	1480 mg/kg (Rabbit)

Propylene glycol monomethyl ether acetate 108-65-6	5000 mg/kg (Rabbit)
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Component	Inhalation LC50
Butyrolactone	>2.68 mg/L (Rat) 4 h
96-48-0	

Skin corrosion/irritation There is no data for this product. There is no data for this product. Eye damage/irritation Sensitisation There is no data for this product. **Mutagenic Effects** There is no data for this product. There is no data for this product. Carcinogenic effects **Reproductive Effects** There is no data for this product. STOT - single exposure There is no data for this product. There is no data for this product. STOT - repeated exposure Aspiration hazard There is no data for this product.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

None known

Unknown Aquatic Toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

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

Component	Fish
Butyrolactone 96-48-0	96h LC50 Leuciscus idus: 220 - 460 mg/L [static]
Propylene glycol monomethyl ether acetate 108-65-6	96h LC50 Pimephales promelas: 161 mg/L [static]

Component	Crustacea
Butyrolactone 96-48-0	48h EC50 Daphnia magna Straus: >500 mg/L
Propylene glycol monomethyl ether acetate 108-65-6	48h EC50 Daphnia magna: >500 mg/L

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

Component	Partition coefficient
Butyrolactone	-0.566
96-48-0	
Ethylene glycol monobutyl ether acetate	1.51
112-07-2	
Propylene glycol monomethyl ether acetate	0.43
108-65-6	

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).

24649 - Yellow

12.6 Other adverse effects.

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

Products

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

disposal.

Section 14: TRANSPORT INFORMATION

Not Regulated ADR Printing Ink 14.2 Proper Shipping Name

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

H360 - May damage fertility or the unborn child if inhaled

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value

Revision Date Apr-21-2016

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
