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S-PG-CY

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

S-PG-CY

1.2. Relevant identified uses of the substance or mixture and uses advised against

Inkjet Printing

1.3. Details of the supplier of the safety data sheet

Manufacturer'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:

Revised date: 21-Oct-2022

1.4. Emergency telephone +1-949-727-2100

2. Hazard identification

2.1. Classification of the substance or mixture

This product is not classified as hazardous according to GHS criteria.

2.2. GHS label elements, including precautionary statements

This product does not need to be labelled in accordance with GHS criteria.

Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

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.

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

Others: No information. S-PG-CY

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3. Composition/information on ingredients

Chemical nature: mixture

Composition	CAS No.	% By Weight	GHS Classification
2,2'-oxydiethanol	111-46-6	1-10	Acute Tox. 4: H302
Water	7732-18-5	>90	Not classified as hazardous

[†] For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

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. Most important symptoms and effects, both acute and delayed

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.

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

no information

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemical, Foam, Carbon dioxide, Dry sand, Loaded stream in spray.

Unsuitable extinguishing media:

Water, High-pressure water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors. Flash Point: > 94deg.C

5.3. Advice 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.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 and material for containment and cleaning up

Sweep up material and dispose as waste following local regulations.

6.4. Reference to other sections

Refer to "Section 8 Exposure controls/ personal protection" and "Section 13 Disposal consideration" as appropriate.

7. Handling and storage

7.1 Precautions for safe 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 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s): Inkjet Printing

8. Exposure controls/ personal protection

8.1. Control parameters

Occupational Exposure Limits:

Derived No-Effect Level (DNEL)

— 2,2'-oxydiethanol:

[Long term exposure] 44 mg/m³

[Short term exposure] no hazard identified

8.2. Exposure controls

Appropriate engineering controls

Provide general and/or local exhaust ventilation.

Respiratory protection:

Not requiredwhen sufficient ventilation is provided. In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

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Hand protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves. Recommended impervious gloves is EN420/374 approved butyl rubber glove.

Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses.

Skin protection:

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

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.

Environmental exposure control:

Avoid release to the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Blue Liquid Appearance: Slightly odour Odour: Odour threshold: Not defined No data available pH: Melting point/freezing point: No data available Initial boiling point and boiling range: No data available Flash point: > 94deg.C

Evaporation rate: No data available Flammability (solid, gas) Not applicable Upper/lower flammability or explosive limits: No data available Vapor pressure: No data available No data available Vapor density:

Relative density: 1.25-1.35 Solubility(ies): soluble

Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available No data available Explosive properties: No data available Oxidizing properties:

Volatile organic compounds (VOC) content: 120 g/L

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9.2 Other information

No information.

10. Stability and reactivity

10.1 Reactivity:

No reactivity under normal temperature.

10.2 Chemical stability:

Stable under normal temperature.

10.3 Possibility of hazardous reactions:

Not expected.

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

11.1. Information on toxicological effects

Acute toxicity:

2,2'-oxydiethanol

LD50 (oral): no data available, LD50 (dermal): no data available, LD50 (Inhal.): no data available

Serious eye damage/eye irritation:

no data available.

Skin corrosion/irritation:

no data available.

Respiratory or skin sensitisation:

no data available.

Germ cell mutagenicity:

no data available.

Reproductive toxicity:

no data available.

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Carcinogenicity:

None of the ingredients in this ink 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

12.1. Toxicity: No data available.

12.2. Persistence and degradability:

No data available

12.3. Bioaccumulative potential:

No data available

12.4. Mobility in soil:

No data available

12.5. Results of PBT and vPvB assessment:

Has not carried out PBT and vPvB assessment.

12.6. Other adverse effects:

No data available

13. Disposal considerations

13.1. Waste treatment methods

Product: Dispose as hazardous waste. Packaging with product residues must be disposed of

under the same conditions as the product itself.

Recommended waste code: 08 03 13 (waste ink other than those mentioned in 08 03 12)

Uncleaned packaging: 15 01 02 (plastic packaging)

Recommendation: Uncontaminated packaging can be recycled. Non-cleanable packaging must be

disposed of in the same way as the substance.

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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.

S-PG-CY

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code: Not regulated

15. Regulatory information

EU Information: Chemical Safety Assessment according to (EC)1907/2006 This product has not carried out any Chemical Safety Assessment yet.

International Information:

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

16. Other information

List of relevant H-Statements:

(Reference for Section 3. "Composition/information on ingredients")

— H302: Harmful if swallowed.

The information in this Safety Data Sheet (SDS) is believed to be 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. It is subject to revision as additional knowledge and experience is gained. Roland DG does not warrant the completeness or accuracy of the information contained herein.

S-PG-MG

Version G_1.0

2022/10/21

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

S-PG-MG

1.2. Relevant identified uses of the substance or mixture and uses advised against

Inkjet Printing

1.3. Details of the supplier of the safety data sheet

Manufacturer'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:

Revised date: 21-Oct-2022

1.4. Emergency telephone +1-949-727-2100

2. Hazard identification

2.1. Classification of the substance or mixture

This product is not classified as hazardous according to GHS criteria.

2.2. GHS label elements, including precautionary statements

This product does not need to be labelled in accordance with GHS criteria.

Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

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 ink is listed by IARC as a carcinogen. (1, 2A and 2B)

No information. Others:

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3. Composition/information on ingredients

Chemical nature: mixture

Composition	CAS No.	% By Weight	GHS Classification
2,2'-oxydiethanol	111-46-6	1-10	Acute Tox. 4: H302
Water	7732-18-5	>90	Not classified as hazardous

[†] For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

In case of contact, immediately flush eyes with plenty of water for several minutes. Hold eyelids open Eyes:

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.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Inhalation:

oxygen. Call a physician.

If swallowed, DO NOT induce vomiting. Seek immediate medical advice. Ingestion:

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

Contact with eye will be irritating. Eyes:

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.

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

no information

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemical, Foam, Carbon dioxide, Dry sand, Loaded stream in spray.

Unsuitable extinguishing media:

Water, High-pressure water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors. Flash Point: > 94deg.C

5.3. Advice 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.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 and material for containment and cleaning up

Sweep up material and dispose as waste following local regulations.

6.4. Reference to other sections

Refer to "Section 8 Exposure controls/ personal protection" and "Section 13 Disposal consideration" as appropriate.

7. Handling and storage

7.1 Precautions for safe 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 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s): Inkjet Printing

8. Exposure controls/ personal protection

8.1. Control parameters

Occupational Exposure Limits:

Derived No-Effect Level (DNEL)

— 2,2'-oxydiethanol:

[Long term exposure] 44 mg/m³

[Short term exposure] no hazard identified

8.2. Exposure controls

Appropriate engineering controls

Provide general and/or local exhaust ventilation.

Respiratory protection:

Not requiredwhen sufficient ventilation is provided. In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

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Hand protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves. Recommended impervious gloves is EN420/374 approved butyl rubber glove.

Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses.

Skin protection:

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

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.

Environmental exposure control:

Avoid release to the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Red Liquid Appearance: Slightly odour Odour: Odour threshold: Not defined No data available pH: No data available Melting point/freezing point: No data available Initial boiling point and boiling range: Flash point: > 94deg.C

Evaporation rate: No data available Flammability (solid, gas) Not applicable Upper/lower flammability or explosive limits: No data available Vapor pressure: No data available No data available Vapor density:

Relative density: 1.0-1.1 Solubility(ies): soluble

Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available No data available Explosive properties: No data available Oxidizing properties:

Volatile organic compounds (VOC) content: 120 g/L

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9.2 Other information

No information.

10. Stability and reactivity

10.1 Reactivity:

No reactivity under normal temperature.

10.2 Chemical stability:

Stable under normal temperature.

10.3 Possibility of hazardous reactions:

Not expected.

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

11.1. Information on toxicological effects

Acute toxicity:

2,2'-oxydiethanol

LD50 (oral): no data available, LD50 (dermal): no data available, LD50 (Inhal.): no data available

Serious eye damage/eye irritation:

no data available.

Skin corrosion/irritation:

no data available.

Respiratory or skin sensitisation:

no data available.

Germ cell mutagenicity:

no data available.

Reproductive toxicity:

no data available.

2022/10/21 S-PG-MG

Carcinogenicity:

None of the ingredients in this ink 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

12.1. Toxicity: No data available.

12.2. Persistence and degradability:

No data available

12.3. Bioaccumulative potential:

No data available

12.4. Mobility in soil:

No data available

12.5. Results of PBT and vPvB assessment:

Has not carried out PBT and vPvB assessment.

12.6. Other adverse effects:

No data available

13. Disposal considerations

13.1. Waste treatment methods

Product: Dispose as hazardous waste. Packaging with product residues must be disposed of

under the same conditions as the product itself.

Recommended waste code: 08 03 13 (waste ink other than those mentioned in 08 03 12)

Uncleaned packaging: 15 01 02 (plastic packaging)

Recommendation: Uncontaminated packaging can be recycled. Non-cleanable packaging must be

disposed of in the same way as the substance.

2022/10/21

Version G_{1.0}

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.

S-PG-MG

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code: Not regulated

15. Regulatory information

EU Information: Chemical Safety Assessment according to (EC)1907/2006 This product has not carried out any Chemical Safety Assessment yet.

International Information:

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

16. Other information

List of relevant H-Statements:

(Reference for Section 3. "Composition/information on ingredients")

— H302: Harmful if swallowed.

The information in this Safety Data Sheet (SDS) is believed to be 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. It is subject to revision as additional knowledge and experience is gained. Roland DG does not warrant the completeness or accuracy of the information contained herein.

S-PG-YE

Version G_1.0

2022/10/21

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

S-PG-YE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Inkjet Printing

1.3. Details of the supplier of the safety data sheet

Manufacturer'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:

Revised date: 21-Oct-2022

1.4. Emergency telephone: +1-949-727-2100

2. Hazard identification

2.1. Classification of the substance or mixture

This product is not classified as hazardous according to GHS criteria

2.2. GHS label elements, including precautionary statements

This product does not need to be labelled in accordance with GHS criteria.

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 ink is listed by IARC as a carcinogen. (1, 2A and 2B)

Others: No information.

2022/10/21 S-PG-YE

3. Composition/information on ingredients

Chemical nature: mixture

Composition	CAS No.	% By Weight	GHS Classification
2,2'-oxydiethanol	111-46-6	1-10	Acute Tox. 4: H302
Water	7732-18-5	>90	Not classified as hazardous

[†] For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

In case of contact, immediately flush eyes with plenty of water for several minutes. Hold eyelids open Eyes:

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. Most important symptoms and effects, both acute and delayed

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.

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

no information

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemical, Foam, Carbon dioxide, Dry sand, Loaded stream in spray.

Unsuitable extinguishing media:

Water, High-pressure water jet.

5.2. Special hazards arising from the substance or mixture

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

Flash Point: > 94deg.C

5.3. Advice 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.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 and material for containment and cleaning up

Sweep up material and dispose as waste following local regulations.

6.4. Reference to other sections

Refer to "Section 8 Exposure controls/ personal protection" and "Section 13 Disposal consideration" as appropriate.

7. Handling and storage

7.1 Precautions for safe 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 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s): Inkjet Printing

8. Exposure controls/ personal protection

8.1. Control parameters

Occupational Exposure Limits:

Derived No-Effect Level (DNEL)

- 2,2'-oxydiethanol:

[Long term exposure] 44 mg/m³

[Short term exposure] no hazard identified

8.2. Exposure controls

Appropriate engineering controls

Provide general and/or local exhaust ventilation.

Respiratory protection:

Not requiredwhen sufficient ventilation is provided. In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

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Hand protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves. Recommended impervious gloves is EN420/374 approved butyl rubber glove.

Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses.

Skin protection:

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

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.

Environmental exposure control:

Avoid release to the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Yellow Liquid Appearance: Odour: Slightly odour Odour threshold: Not defined No data available pH: Melting point/freezing point: No data available Initial boiling point and boiling range: No data available > 94deg.C Flash point:

Evaporation rate: No data available Flammability (solid, gas) Not applicable Upper/lower flammability or explosive limits: No data available Vapor pressure: No data available No data available Vapor density:

1.0-1.1 Relative density: Solubility(ies): soluble

Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available No data available Decomposition temperature: Viscosity: No data available No data available Explosive properties: No data available Oxidizing properties: Volatile organic compounds (VOC) content: 120 g/L (Max)

S-PG-YE 2022/10/21

9.2 Other information

No information.

10. Stability and reactivity

10.1 Reactivity:

No reactivity under normal temperature.

10.2 Chemical stability:

Stable under normal temperature.

10.3 Possibility of hazardous reactions:

Not expected.

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

11.1. Information on toxicological effects

Acute toxicity:

2,2'-oxydiethanol

LD50 (oral): no data available, LD50 (dermal): no data available, LD50 (Inhal.): no data available

Serious eye damage/eye irritation:

no data available.

Skin corrosion/irritation:

no data available.

Respiratory or skin sensitisation:

no data available.

Germ cell mutagenicity:

no data available.

Reproductive toxicity:

no data available.

S-PG-YE

Version G_1.0

2022/10/21

Carcinogenicity:

None of the ingredients in this ink 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

12.1. Toxicity: No data available.

12.2. Persistence and degradability:

No data available

12.3. Bioaccumulative potential:

No data available

12.4. Mobility in soil:

No data available

12.5. Results of PBT and vPvB assessment:

Has not carried out PBT and vPvB assessment.

12.6. Other adverse effects:

No data available

13. Disposal considerations

13.1. Waste treatment methods

Product: Dispose as hazardous waste. Packaging with product residues must be disposed of

under the same conditions as the product itself.

Recommended waste code: 08 03 13 (waste ink other than those mentioned in 08 03 12)

Uncleaned packaging: 15 01 02 (plastic packaging)

Recommendation: Uncontaminated packaging can be recycled. Non-cleanable packaging must be

disposed of in the same way as the substance.

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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

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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

EU Information: Chemical Safety Assessment according to (EC)1907/2006 This product has not carried out any Chemical Safety Assessment yet.

International Information:

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

16. Other information

List of relevant H-Statements:

(Reference for Section 3. "Composition/information on ingredients")

— H302: Harmful if swallowed.

The information in this Safety Data Sheet (SDS) is believed to be 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. It is subject to revision as additional knowledge and experience is gained. Roland DG does not warrant the completeness or accuracy of the information contained herein.

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Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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1.2. Relevant identified uses of the substance or mixture and uses advised against

Inkjet Printing

1.3. Details of the supplier of the safety data sheet

Manufacturer's name: Roland DGA Corporation

Address: 15363 Barranca Parkway Irvine, CA 92618 U.S.A.

Phone: +1-949-727-2100 +1-949-727-2112 FAX:

E-mail:

Revised date: 21-Oct-2022

1.4. Emergency telephone: +1-949-727-2100

2. Hazard identification

2.1. Classification of the substance or mixture

This product is not classified as hazardous according to GHS criteria

2.2. GHS label elements, including precautionary statements

This product does not need to be labelled in accordance with GHS criteria.

Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

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: This product contains Carbon black.IARC evaluated printing ink as a Group 3.(IARC

Group 3: Not classifiable as to carcinogenicity to humans)

Others: No information.

3. Composition/information on ingredients

Chemical nature: mixture

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Composition	CAS No.	% By Weight	GHS Classification
Carbon Black	1333-86-4	1-10	Not classified as hazardous
2,2'-oxydiethanol	111-46-6	1-10	Acute Tox. 4: H302
Water	7732-18-5	>90	Not classified as hazardous

[†] For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

In case of contact, immediately flush eyes with plenty of water for several minutes. Hold eyelids open Eyes:

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.

If swallowed, DO NOT induce vomiting. Seek immediate medical advice. Ingestion:

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

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.

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

no information

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemical, Foam, Carbon dioxide, Dry sand, Loaded stream in spray.

Unsuitable extinguishing media:

Water, High-pressure water jet.

5.2. Special hazards arising from the substance or mixture

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

Flash Point: > 94deg.C

5.3. Advice 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

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discard any clothing that may contain chemical residues. Applying direct water may be dangerous because fire may expand to surroundings.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 and material for containment and cleaning up

Sweep up material and dispose as waste following local regulations.

6.4. Reference to other sections

Refer to "Section 8 Exposure controls/ personal protection" and "Section 13 Disposal consideration" as appropriate.

7. Handling and storage

7.1 Precautions for safe 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 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s): Inkjet Printing

8. Exposure controls/ personal protection

8.1. Control parameters

Occupational Exposure Limits:

Derived No-Effect Level (DNEL)

— Carbon Black:

[Long term exposure] no hazard identified [Short term exposure] no hazard identified

- 2,2'-oxydiethanol:

[Long term exposure] 44 mg/m³

[Short term exposure] no hazard identified

8.2. Exposure controls

Appropriate engineering controls

Provide general and/or local exhaust ventilation.

Respiratory protection:

Not requiredwhen sufficient ventilation is provided. In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

Hand protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves. Recommended impervious gloves is EN420/374 approved butyl rubber glove.

Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses.

Skin protection:

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

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.

Environmental exposure control:

Avoid release to the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Black Liquid Appearance: Odour: slight odor Odour threshold: Not defined No data available pH: Melting point/freezing point: No data available Initial boiling point and boiling range: No data available > 94deg.C Flash point:

Evaporation rate: No data available Flammability (solid, gas) Not applicable Upper/lower flammability or explosive limits: No data available Vapor pressure: No data available Vapor density: No data available

1.0-1.1 Relative density: Solubility(ies): Soluble

Partition coefficient: n-octanol/water: No data available No data available Auto-ignition temperature:



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Decomposition temperature: No data available Viscosity: No data available No data available Explosive properties: No data available Oxidizing properties:

Volatile organic compounds (VOC) content: 120 g/L

9.2 Other information

No information.

10. Stability and reactivity

10.1 Reactivity:

No reactivity under normal temperature.

10.2 Chemical stability:

Stable under normal temperature.

10.3 Possibility of hazardous reactions:

Not expected.

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

11.1. Information on toxicological effects

Acute toxicity:

2,2'-oxydiethanol

LD50 (oral): no data available, LD50 (dermal): no data available, LD50 (Inhal.): no data available

Serious eye damage/eye irritation:

no data available.

Skin corrosion/irritation:

no data available.

Respiratory or skin sensitisation:

no data available.

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Germ cell mutagenicity:

no data available.

Reproductive toxicity:

no data available.

Carcinogenicity:

This product contains Carbon black.

IARC evaluated printing ink as a Group 3.

(IARC Group 3: Not classifiable as to carcinogenicity to humans)

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

12.1. Toxicity: No data available.

12.2. Persistence and degradability:

No data available

12.3. Bioaccumulative potential:

No data available

12.4. Mobility in soil:

No data available

12.5. Results of PBT and vPvB assessment:

Has not carried out PBT and vPvB assessment.

12.6. Other adverse effects:

No data available

13. Disposal considerations

13.1. Waste treatment methods

Product: Dispose as hazardous waste. Packaging with product residues must be disposed of

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under the same conditions as the product itself.

Recommended waste code: 08 03 13 (waste ink other than those mentioned in 08 03 12)

Uncleaned packaging: 15 01 02 (plastic packaging)

Recommendation: Uncontaminated packaging can be recycled. Non-cleanable packaging must be

disposed of in the same way as the substance.

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

EU Information: Chemical Safety Assessment according to (EC)1907/2006 This product has not carried out any Chemical Safety Assessment yet.

International Information:

This product contains Carbon black.

IARC evaluated printing ink as a Group 3.

(IARC Group 3: Not classifiable as to carcinogenicity to humans

16. Other information

List of relevant H-Statements:



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(Reference for Section 3. "Composition/information on ingredients") — H302: Harmful if swallowed.

The information in this Safety Data Sheet (SDS) is believed to be 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. It is subject to revision as additional knowledge and experience is gained. Roland DG does not warrant the completeness or accuracy of the information contained herein.

S-PG-WH

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Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

S-PG-WH

1.2. Relevant identified uses of the substance or mixture and uses advised against

Inkjet Printing

1.3. Details of the supplier of the safety data sheet

Manufacturer's name: Roland DGA Corporation

15363 Barranca Parkway Irvine, CA 92618 U.S.A.

Phone: +1-949-727-2100 FAX: +1-949-727-2112

E-mail:

Revised date: 21-Oct-2022

1.4. Emergency telephone: +1-949-727-2100

2. Hazard identification

2.1. Classification of the substance or mixture

This product is not classified as hazardous according to GHS criteria

2.2. GHS label elements, including precautionary statements

This product does not need to be labelled in accordance with GHS criteria.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

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: This product contains Titanium dioxide.IARC evaluated printing ink as a Group 3.(IARC

Group 3: Not classifiable as to carcinogenicity to humans)

Others: No information.

3. Composition/information on ingredients

Chemical nature: mixture

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Composition	CAS No.	% By Weight	GHS Classification
Titanium dioxide	13463-67-7	10-20	Not classified as hazardous
Aceton	67-64-1	<1	Flam. Liq. 2: H225 STOT SE 3: H336 Eye Irrit. 2: H319
Water	7732-18-5	>80	Not classified as hazardous

[†] For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

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. Most important symptoms and effects, both acute and delayed

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.

May cause injury of mouth, throat, and stomach. Ingestion:

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

no information

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemical, Foam, Carbon dioxide, Dry sand, Loaded stream in spray.

Unsuitable extinguishing media:

Water, High-pressure water jet.

5.2. Special hazards arising from the substance or mixture

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

Flash Point: > 94deg.C

5.3. Advice for firefighters

Wear special chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

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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

6.1. Personal precautions, protective equipment and emergency procedures

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 and material for containment and cleaning up

Sweep up material and dispose as waste following local regulations.

6.4. Reference to other sections

Refer to "Section 8 Exposure controls/ personal protection" and "Section 13 Disposal consideration" as appropriate.

7. Handling and storage

7.1 Precautions for safe 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 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s): Inkjet Printing

8. Exposure controls/ personal protection

8.1. Control parameters

Occupational Exposure Limits:

Derived No-Effect Level (DNEL)

— Titanium dioxide:

[Long term exposure] no hazard identified [Short term exposure] no hazard identified

8.2. Exposure controls

Appropriate engineering controls

Provide general and/or local exhaust ventilation.

Respiratory protection:

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Not requiredwhen sufficient ventilation is provided. In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

Hand protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, use protective gloves. Recommended impervious gloves is EN420/374 approved butyl rubber glove.

Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses.

Skin protection:

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

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.

Environmental exposure control:

Avoid release to the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: White Liquid Odour: Slightly odour Odour threshold: Not defined No data available Melting point/freezing point: No data available Initial boiling point and boiling range: No data available Flash point: > 94deg.C

Evaporation rate: No data available Flammability (solid, gas) Not applicable Upper/lower flammability or explosive limits: No data available No data available Vapor pressure: Vapor density: No data available

Relative density: 1.1 - 1.2Solubility(ies): soluble

No data available Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity:



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Explosive properties: No data available Oxidizing properties: No data available

Volatile organic compounds (VOC) content: 120 g_L

9.2 Other information

No information.

10. Stability and reactivity

10.1 Reactivity:

No reactivity under normal temperature.

10.2 Chemical stability:

Stable under normal temperature.

10.3 Possibility of hazardous reactions:

Not expected.

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

11.1. Information on toxicological effects

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

Serious eye damage/eye irritation:

Causes serious eye irritation.

• Aceton

Skin corrosion/irritation:

no data available.

Respiratory or skin sensitisation:

no data available.

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Germ cell mutagenicity:

no data available.

Reproductive toxicity:

no data available.

Carcinogenicity:

This product contains Titanium dioxide.

IARC evaluated printing ink as a Group 3.

(IARC Group 3: Not classifiable as to carcinogenicity to humans)

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

May cause drowsiness or dizziness.

• Aceton

Specific target organ toxicity - repeat exposure, (STOT-RE):

no data available.

Aspiration hazard:

no data available.

12. Ecological information

12.1. Toxicity: No data available.

12.2. Persistence and degradability:

No data available

12.3. Bioaccumulative potential:

No data available

12.4. Mobility in soil:

No data available

12.5. Results of PBT and vPvB assessment:

Has not carried out PBT and vPvB assessment.

12.6. Other adverse effects:

No data available

13. Disposal considerations

13.1. Waste treatment methods

Product: Dispose as hazardous waste. Packaging with product residues must be disposed of



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S-PG-WH

under the same conditions as the product itself.

Recommended waste code: 08 03 13 (waste ink other than those mentioned in 08 03 12)

Uncleaned packaging: 15 01 02 (plastic packaging)

Uncontaminated packaging can be recycled. Non-cleanable packaging must be Recommendation:

disposed of in the same way as the substance.

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

EU Information: Chemical Safety Assessment according to (EC)1907/2006 This product has not carried out any Chemical Safety Assessment yet.

International Information:

This product contains Titanium dioxide.

IARC evaluated printing ink as a Group 3.

(IARC Group 3: Not classifiable as to carcinogenicity to humans

16. Other information

List of relevant H-Statements:

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S-PG-WH

(Reference for Section 3. "Composition/information on ingredients")

- H225: Highly flammable liquid and vapour.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.

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