DPI DG PRINTING s.r.l

CREATION DATE : 2020/10/21
REVISION DATE : 2022/04/11
VIERSION V2.0.0.1
Prepared according to EU regulation No. 2015/830

****** SAFETY DATA SHEET ******

1_Identification of the substance / mixture and of the company / undertaking

Product name : Textile Digital Pigment ink
SDS Name: **PICTA INK – BLACK (nero)**

Catalog Numbers: GB6944&gb12268

Company Identification (distributor's company) : DPI DG PRINTING s.r.l.
Via E. Salfari 14/ e - 31056 Biancade di Roncade (TV) – ITALY

For information, call: 0039-0422 798184
Email : amministrazione@ser-tec.org

1.2 Emergency telephone number

USA: Chemtrec: +001-800-424-9300
Outside USA: Chemtrec: +001-703-527-3887
24 Hour Emergency Phone Number

2_Hazards identification

[1] CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments Not classified as a dangerous substance.

[2] GHS Label elements

HAZARD PICTOGRAMS : NOT APPLICABLE
SIGNAL WORD : NOT APPLICABLE

Hazard statements NOT APPLICABLE

Precautionary statements
Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242: Use only non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands, face thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists get medical advice/attention.
P361: Remove/Take off immediately all contaminated clothing.
P381: In case of leakage, eliminate all ignition sources.
P404: Store in a closed container.
P501: Dispose of contents/container in accordance with local regulation

Other hazards
Not applicable.

3 Composition / information on ingredients

Substance / mixture

Component	CAS No.	EC No.	Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight % content (or range)
Water	7732-18-5	231-791-2	-	Not Classified	40~70
Ethyleneglycol	107-21-1	203-473-3	603-027-00-1	Acute Toxicity – Oral, Category 4, H302	5~20
Glycerol	56-81-5	200-289-5	-	Not Classified	3~10
Carbon black	1333-86-4	215-609-9	-	Not Classified	3~6
2,2'-oxydiethanol	111-46-6	203-872-2	603-140-00-6	Acute Toxicity – Oral, Category 4, H302	1~5
2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6	603-096-00-8	Eye Damage/Irritation, Category 2, H319	1~2

4 First – aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most Important symptoms/effects, acute and delayed

1 Please see section 11.

Indication of any **immediate** medical **attention and** special treatment needed

1 Treat symptomatically.
2 Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher whish may . be used

Specific hazards arising from the substance or mixture

1 Development of hazardous combustion gases or vapor possible in the event of fire.
2 May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

1 As in any fife, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2 Fight fire from a safe distance, with adequate cover.
3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1 Use personal protective equipment, do not breathe gas/mist/ vapor /spray.
2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

1 Prevent further leakage or spillage if safe to do so.
2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations .
3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for safe handling

- Protective measures
  1 Handling is performed in a well ventilated place.
  2 Avoid contact with eyes.
- Measures to prevent fire
  1 Keep away from heat/sparks/open games/ hot surfaces.

- Measures to prevent aerosol and dust generation
  1 Not applicable.
- Advice on general occupational hygiene
  1 Wash hands and face after using of the substances.
  2 Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1 Keep containers tightly closed.
2 Keep away from heat/sparks/open flames/hot surfaces
3 Store away from incompatible materials and foodstuff containers

Specific and use (s)

1 in addition to use mentioned in the first parts , unforeseen other specific and uses.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Ethyleneglycol	South Korea	-	-	40	100
	New Zealand	-	-	50	127
	Ireland	20	52	40	104
	Germany (AGS)	10	26	20	52
	Denmark	10	26	20	52
	Australia	20	52	40	104
Glycerol	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100
	Belgium	-	10	-	-
	Australia	-	10	-	-
Carbon black	USA - OSHA	-	3.5	-	-
	South Korea	-	3.5	-	-
	Ireland	-	3.5	-	7
	France	-	3.5	-	-
	Denmark	-	3.5	-	7
	Australia	-	3	-	-
2,2'-oxydiethanol	Sweden	10	45	20	90
	New Zealand	23	101	-	-
	Ireland	23	100	-	-
	Germany (AGS)	10	44	40	176
	Denmark	2.5	11	5	22
	Australia	23	100	-	-
2-(2-butoxyethoxy)ethanol	Latvia	10	67.5	15	101.2
	Ireland	10	67.5	15	101.2
	Germany (AGS)	10	67	15	100
	Denmark	-	100	-	200
	Belgium	10	67.5	15	101.2
	Austria	10	67.5	15	101.2

- Biological limit values

Biological limit values No relevant regulations

- Monitoring methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2 GBZ/T 300.1-GBZ/T 300.160-2017; GBZ/T 300.161-GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

-Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Water	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyleneglycol	Inhalation	No data available	No data available	35 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Glycerol	Inhalation	No data available	No data available	56 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Carbon black	Inhalation	No data available	No data available	2 mg/m³	1~2 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2,2'-oxydiethanol	Inhalation	No data available	No data available	60 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-(2-butoxyethoxy)ethanol	Inhalation	No data available	No data available	67.5 mg/m³	67.5 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

- Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PXEC) No information available

- Engineering controls

1 Ensure adequate ventilation, especially in confined areas.
2 Ensure that eyewash stations and safety showers are close to the workstation location.
3 Set up emergency exit and necessary risk-elimination area.
4 Handle in accordance with good industrial hygiene and safety practice.

- Personal protection equipment

General requirement :	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapor , tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	in general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	jn general situation, skin and body protection are not needed.

9_Physical and chemical properties and safety characteristics

_Physical and chemical properties

Appearance	Liquid
Odor	No information available
Odor threshold	No information available
Ph	7-10
belting point/freezing point C°	No information available
initial boiling point and boiling	> 100
Flash point (Closed cup,C°)	> 67
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive	Upper limit: No information available; Lower IImit: No information available
Vapor pressure	No information available
Vapor density(Air=1) ,	No information available
Relative density (Water=1)	No information available
solubility	Soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature (°C)	No information available
Decomposition temperature{°C)	No information available
Viscosity	No information available
Explosive properties	not explosive
Oxidizing properties	not oxidizing

10_Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions
Chemical stability	Stable under proper operation and storage conditions
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with oxidants causes severe reactions, and may cause a fire or explosion
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Ethyleneglycol	4700mg/kg(Rat)	No information available	No information available
2,2'-oxydiethanol	12565mg/kg(Rat)	11890mg/kg(Rabbit)	No information available
Carbon black	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
2-(2-butoxyethoxy)ethanol	5660mg/kg(Rat)	2700mg/kg(Rabbit)	No information available
Glycerol	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Water	Not Listed	Not Listed
Ethyleneglycol	Not Listed	Not Listed
Glycerol	Not Listed	Not Listed
Carbon black	Category 2B	Not Listed
2,2'-oxydiethanol	Not Listed	Not Listed
2-(2-butoxyethoxy)ethanol	Not Listed	Not Listed

Others

Textile Digital Pigment ink

Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT• single exposure	Based on available data, the classification criteria are not met
STOT• repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutaqenicity	Based on available data, the classification criteria are not met
Reproductive toxicity (additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	LC_{50}: 54700mg/L (96h)(Fish)	EC_{50}: >1100mg/L (48h)(Crustaceans)	ErC_{50}: >1000mg/L (72h)(Algae)
2,2'-oxydiethanol	LC_{50}: 75200mg/L (96h)(Fish)	No information available	No information available
2-(2-butoxyethoxy)ethanol	LC_{50}: 1650mg/L (96h)(Fish)	No information available	No information available
Glycerol	LC_{50}: 68100mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	No information available	NOEC: 100mg/L(Crustaceans)	NOEC: 1000mg/L(Algae)

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Water	Low	Low
Ethyleneglycol	Low(Half-life = 24 days)	Low(Half-life = 3.46 days)
2,2'-oxydiethanol	Low	Low
2-(2-butoxyethoxy)ethanol	Low	Low

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Water	Low	Log Kow=-1.38
Ethyleneglycol	Low	BCF=200
2,2'-oxydiethanol	Low	BCF=180
2-(2-butoxyethoxy)ethanol	Low	BCF=46

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Water	Low	14.3
Ethyleneglycol	High	1
2,2'-oxydiethanol	High	1
2-(2-butoxyethoxy)ethanol	Low	10

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Water	not PBT/vPvB
Ethyleneglycol	not PBT/vPvB
Glycerol	not PBT/vPvB
Carbon black	not PBT/vPvB
2,2'-oxydiethanol	not PBT/vPvB
2-(2-butoxyethoxy)ethanol	not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14_Transport information

- Label and mark
  Transporting label : not applicable

- IMDG-CODE
  IMDG-CODE: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- IATA-DGR
  IATA-DGR: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- UN-ADR
  UN-ADR : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatiory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Water	√	√	√	√	√	√	√	√	√
Ethyleneglycol	√	√	√	√	√	√	√	√	√
Glycerol	√	√	√	√	√	√	√	√	√
Carbon black	√	√	√	√	√	√	√	√	√
2,2'-oxydiethanol	√	√	√	√	√	√	√	√	√
2-(2-butoxyethoxy)ethanol	√	√	√	√	√	√	√	√	√

[EINECS] European Inventory of Existing Commercial Chemical Substances
[TSCA] United States Toxic Substances Control Act Inventory
[DSL] Canadian Domestic Substances List
[IECSC] China Inventory of Existing Chemical Substances
[NZIoC] New Zealand Inventory of Chemicals
[PICCS] Philippines Inventory of Chemicals and Chemical Substances
[KECI] Existing and Evaluated Chemical Substances
[AICS] Australia Inventory of Chemical Substances
[ENCS] Existing And New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Water	×	×	×	√	×	×	×
Ethyleneglycol	×	×	×	√	√	×	×
Glycerol	×	×	×	√	√	×	×
Carbon black	×	×	×	√	√	×	×
2,2'-oxydiethanol	×	×	×	√	√	√	×
2-(2-butoxyethoxy)ethanol	×	×	√	√	√	×	×

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
[B] Substances requiring authorization under EU REACH regulation
[C] Substances restricted under EU REACH
[D] Pre-registered substances under EU REACH
[E] Registered substances under EU REACH
[F] Substance Evaluation — CoRAP under EU REACH
[G] List of priority substances under EU water policy (Directive 2455/2001/EC)

Note:

✓ Indicates that the substance included in the regulations.
x No data or not included in the regulations

16 Other Information

Information on revision

Creation Date :	2020/10/21
Revision Date :	2022/04/11
Reason for revision	-

Reference :

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2] IARC, website: http://www.iarc.fr/.
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportaHsubstancesearch/index.action.
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
NLM: ChemlDplus , website: http://chem.sis.mm.nih.gov/chemidplus/chemidlite.jsp,
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmaMibrary/erg.
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service
PC-STEL	Short term exposure limit
PC-TWA	Time weighted Average
MAC	Maximum Allowable Concentration
DNEL	Derived no effect level
PNEC	Predicted no effect concentration
NOEC	No observed effect concentration
LC50	Lethal concentration 50%
LD50	Lethal Dose 50 %
EC50	Effective Concentration 50%
ECx	Effective concentration X %
Pow	Partition coefficient Octanol : water

BCF	Bioconcentration factor
UN	The United Nation
OECD	Organization for Economic Co- operation and Development
IMDG	International Maritime dangerous goods
IARC	International agency for research on cancer
ICAO	International Civil Aviation organization
IATA	International Air transportation association
ACGIH	American conference of governmental industrial Hygienists
NFPA	National Fire Protection Association
NTP	National toxicology program
PST	Persistent , bioaccumulative , toxic
VPvB	very persistent , very bioaccumulative
CMR	carginogens , mutagens or substances toxic to reproduction
RPE	respiratory protective equipment

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation the data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes .
We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

DPI DG PRINTING SRL

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1_Identification of the substance / mixture and of the company / undertaking

Product name : Textile Digital Pigment ink
SDS Name: **PICTA INK – CYANO**

Catalog Numbers: GB6944&gb12268

Company Identification (distributor's company) : DPI DG PRINTING s.r.l.
Via E. Salfari 14/ e - 31056 Biancade di Roncade (TV) – ITALY

For information, call: 0039-0422 798184
Email : amministrazione@ser-tec.org

1.2 Emergency telephone number

USA: Chemtrec: +001-800-424-9300
Outside USA: Chemtrec: +001-703-527-3887
24 Hour Emergency Phone Number

2 Hazards identification

[1] CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments Not classified as a dangerous substance.

[2] GHS Label elements

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SIGNAL WORD : NOT APPLICABLE

Hazard statements NOT APPLICABLE

Precautionary statements
Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242: Use only non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands, face thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists get medical advice/attention.
P361: Remove/Take off immediately all contaminated clothing.
P381: In case of leakage, eliminate all ignition sources.
P404: Store in a closed container.
P501: Dispose of contents/container in accordance with local regulation

Other hazards
Not applicable.

3 Composition / information on ingredients

Substance / mixture

Component	CAS No.	EC No.	Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight % content (or range)
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Glycerol	56-81-5	200-289-5	-	Not Classified	3~10
Carbon black	1333-86-4	215-609-9	-	Not Classified	3~6
2,2'-oxydiethanol	111-46-6	203-872-2	603-140-00-6	Acute Toxicity – Oral, Category 4, H302	1~5
2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6	603-096-00-8	Eye Damage/Irritation, Category 2, H319	1~2

4 First – aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most Important symptoms/effects, acute and delayed

1 Please see section 11.

Indication of any **immediate** medical **attention and** special treatment needed

1 Treat symptomatically.
2 Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher whish may . be used

Specific hazards arising from the substance or mixture

1 Development of hazardous combustion gases or vapor possible in the event of fire.
2 May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

1 As in any fife, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2 Fight fire from a safe distance, with adequate cover.
3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1 Use personal protective equipment, do not breathe gas/mist/ vapor /spray.
2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

1 Prevent further leakage or spillage if safe to do so.
2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations .
3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for safe handling

- Protective measures
  1 Handling is performed in a well ventilated place.
  2 Avoid contact with eyes.
- Measures to prevent fire
  1 Keep away from heat/sparks/open games/ hot surfaces.

- Measures to prevent aerosol and dust generation
  1 Not applicable.
- Advice on general occupational hygiene
  1 Wash hands and face after using of the substances.
  2 Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1 Keep containers tightly closed.
2 Keep away from heat/sparks/open flames/hot surfaces
3 Store away from incompatible materials and foodstuff containers

Specific and use (s)

1 in addition to use mentioned in the first parts , unforeseen other specific and uses.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
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	New Zealand	-	-	50	127
	Ireland	20	52	40	104
	Germany (AGS)	10	26	20	52
	Denmark	10	26	20	52
	Australia	20	52	40	104
Glycerol	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100
	Belgium	-	10	-	-
	Australia	-	10	-	-
Carbon black	USA - OSHA	-	3.5	-	-
	South Korea	-	3.5	-	-
	Ireland	-	3.5	-	7
	France	-	3.5	-	-
	Denmark	-	3.5	-	7
	Australia	-	3	-	-
2,2'-oxydiethanol	Sweden	10	45	20	90
	New Zealand	23	101	-	-
	Ireland	23	100	-	-
	Germany (AGS)	10	44	40	176
	Denmark	2.5	11	5	22
	Australia	23	100	-	-
2-(2-butoxyethoxy)ethanol	Latvia	10	67.5	15	101.2
	Ireland	10	67.5	15	101.2
	Germany (AGS)	10	67	15	100
	Denmark	-	100	-	200
	Belgium	10	67.5	15	101.2
	Austria	10	67.5	15	101.2

- Biological limit values

Biological limit values No relevant regulations

- Monitoring methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2 GBZ/T 300.1-GBZ/T 300.160-2017; GBZ/T 300.161-GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

-Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Water	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyleneglycol	Inhalation	No data available	No data available	35 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Glycerol	Inhalation	No data available	No data available	56 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Carbon black	Inhalation	No data available	No data available	2 mg/m³	1~2 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2,2'-oxydiethanol	Inhalation	No data available	No data available	60 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-(2-butoxyethoxy)ethanol	Inhalation	No data available	No data available	67.5 mg/m³	67.5 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

- Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PXEC) No information available

- Engineering controls

1 Ensure adequate ventilation, especially in confined areas.
2 Ensure that eyewash stations and safety showers are close to the workstation location.
3 Set up emergency exit and necessary risk-elimination area.
4 Handle in accordance with good industrial hygiene and safety practice.

- Personal protection equipment

General requirement :	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapor , tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	in general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	jn general situation, skin and body protection are not needed.

9_Physical and chemical properties and safety characteristics

_Physical and chemical properties

Appearance	Liquid
Odor	No information available
Odor threshold	No information available
Ph	7-10
belting point/freezing point C°	No information available
initial boiling point and boiling	> 100
Flash point (Closed cup,C°)	> 67
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive	Upper limit: No information available; Lower IImit: No information available
Vapor pressure	No information available
Vapor density(Air=1) ,	No information available
Relative density (Water=1)	No information available
solubility	Soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature (°C)	No information available
Decomposition temperature{°C)	No information available
Viscosity	No information available
Explosive properties	not explosive
Oxidizing properties	not oxidizing

10_Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions
Chemical stability	Stable under proper operation and storage conditions
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with oxidants causes severe reactions, and may cause a fire or explosion
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Ethyleneglycol	4700mg/kg(Rat)	No information available	No information available
2,2'-oxydiethanol	12565mg/kg(Rat)	11890mg/kg(Rabbit)	No information available
Carbon black	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
2-(2-butoxyethoxy)ethanol	5660mg/kg(Rat)	2700mg/kg(Rabbit)	No information available
Glycerol	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Water	Not Listed	Not Listed
Ethyleneglycol	Not Listed	Not Listed
Glycerol	Not Listed	Not Listed
Carbon black	Category 2B	Not Listed
2,2'-oxydiethanol	Not Listed	Not Listed
2-(2-butoxyethoxy)ethanol	Not Listed	Not Listed

Others

Textile Digital Pigment ink

Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT• single exposure	Based on available data, the classification criteria are not met
STOT• repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutaqenicity	Based on available data, the classification criteria are not met
Reproductive toxicity (additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	LC_{50}: 54700mg/L (96h)(Fish)	EC_{50}: >1100mg/L (48h)(Crustaceans)	ErC_{50}: >1000mg/L (72h)(Algae)
2,2'-oxydiethanol	LC_{50}: 75200mg/L (96h)(Fish)	No information available	No information available
2-(2-butoxyethoxy)ethanol	LC_{50}: 1650mg/L (96h)(Fish)	No information available	No information available
Glycerol	LC_{50}: 68100mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	No information available	NOEC: 100mg/L(Crustaceans)	NOEC: 1000mg/L(Algae)

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Water	Low	Low
Ethyleneglycol	Low(Half-life = 24 days)	Low(Half-life = 3.46 days)
2,2'-oxydiethanol	Low	Low
2-(2-butoxyethoxy)ethanol	Low	Low

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Water	Low	Log Kow=-1.38
Ethyleneglycol	Low	BCF=200
2,2'-oxydiethanol	Low	BCF=180
2-(2-butoxyethoxy)ethanol	Low	BCF=46

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Water	Low	14.3
Ethyleneglycol	High	1
2,2'-oxydiethanol	High	1
2-(2-butoxyethoxy)ethanol	Low	10

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Water	not PBT/vPvB
Ethyleneglycol	not PBT/vPvB
Glycerol	not PBT/vPvB
Carbon black	not PBT/vPvB
2,2'-oxydiethanol	not PBT/vPvB
2-(2-butoxyethoxy)ethanol	not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14_Transport information

- Label and mark
  Transporting label : not applicable

- IMDG-CODE
  IMDG-CODE: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- IATA-DGR
  IATA-DGR: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- UN-ADR
  UN-ADR : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatiory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Water	√	√	√	√	√	√	√	√	√
Ethyleneglycol	√	√	√	√	√	√	√	√	√
Glycerol	√	√	√	√	√	√	√	√	√
Carbon black	√	√	√	√	√	√	√	√	√
2,2'-oxydiethanol	√	√	√	√	√	√	√	√	√
2-(2-butoxyethoxy)ethanol	√	√	√	√	√	√	√	√	√

[EINECS] European Inventory of Existing Commercial Chemical Substances
[TSCA] United States Toxic Substances Control Act Inventory
[DSL] Canadian Domestic Substances List
[IECSC] China Inventory of Existing Chemical Substances
[NZIoC] New Zealand Inventory of Chemicals
[PICCS] Philippines Inventory of Chemicals and Chemical Substances
[KECI] Existing and Evaluated Chemical Substances
[AICS] Australia Inventory of Chemical Substances
[ENCS] Existing And New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Water	×	×	×	√	×	×	×
Ethyleneglycol	×	×	×	√	√	×	×
Glycerol	×	×	×	√	√	×	×
Carbon black	×	×	×	√	√	×	×
2,2'-oxydiethanol	×	×	×	√	√	√	×
2-(2-butoxyethoxy)ethanol	×	×	√	√	√	×	×

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
[B] Substances requiring authorization under EU REACH regulation
[C] Substances restricted under EU REACH
[D] Pre-registered substances under EU REACH
[E] Registered substances under EU REACH
[F] Substance Evaluation — CoRAP under EU REACH
[G] List of priority substances under EU water policy (Directive 2455/2001/EC)

Note:

✓ Indicates that the substance included in the regulations.
x No data or not included in the regulations

16 Other Information

Information on revision

Creation Date :	2020/10/21
Revision Date :	2022/04/11
Reason for revision	-

Reference :

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2] IARC, website: http://www.iarc.fr/.
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportaHsubstancesearch/index.action.
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
NLM: ChemlDplus , website: http://chem.sis.mm.nih.gov/chemidplus/chemidlite.jsp,
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmaMibrary/erg.
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service
PC-STEL	Short term exposure limit
PC-TWA	Time weighted Average
MAC	Maximum Allowable Concentration
DNEL	Derived no effect level
PNEC	Predicted no effect concentration
NOEC	No observed effect concentration
LC50	Lethal concentration 50%
LD50	Lethal Dose 50 %
EC50	Effective Concentration 50%
ECx	Effective concentration X %
Pow	Partition coefficient Octanol : water

BCF	Bioconcentration factor
UN	The United Nation
OECD	Organization for Economic Co- operation and Development
IMDG	International Maritime dangerous goods
IARC	International agency for research on cancer
ICAO	International Civil Aviation organization
IATA	International Air transportation association
ACGIH	American conference of governmental industrial Hygienists
NFPA	National Fire Protection Association
NTP	National toxicology program
PST	Persistent , bioaccumulative , toxic
VPvB	very persistent , very bioaccumulative
CMR	carginogens , mutagens or substances toxic to reproduction
RPE	respiratory protective equipment

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation the data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes .
We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

DPI DG PRINTING SRL

DPI DG PRINTING s.r.l

CREATION DATE : 2020/10/21
REVISION DATE : 2022/04/11
VIERSION V2.0.0.1
Prepared according to EU regulation No. 2015/830

****** SAFETY DATA SHEET ******

1_Identification of the substance / mixture and of the company / undertaking

Product name : Textile Digital Pigment ink
SDS Name: **PICTA INK – MAGENTA**

Catalog Numbers: GB6944&gb12268

Company Identification (distributor's company) : DPI DG PRINTING s.r.l.
Via E. Salfari 14/ e - 31056 Biancade di Roncade (TV) – ITALY

For information, call: 0039-0422 798184
Email : amministrazione@ser-tec.org

1.2 Emergency telephone number

USA: Chemtrec: +001-800-424-9300
Outside USA: Chemtrec: +001-703-527-3887
24 Hour Emergency Phone Number

2 Hazards identification

[1] CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments Not classified as a dangerous substance.

[2] GHS Label elements

HAZARD PICTOGRAMS : NOT APPLICABLE
SIGNAL WORD : NOT APPLICABLE

Hazard statements NOT APPLICABLE

Precautionary statements
Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242: Use only non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands, face thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists get medical advice/attention.
P361: Remove/Take off immediately all contaminated clothing.
P381: In case of leakage, eliminate all ignition sources.
P404: Store in a closed container.
P501: Dispose of contents/container in accordance with local regulation

Other hazards
Not applicable.

3 Composition / information on ingredients

Substance / mixture

Component	CAS No.	EC No.	Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight % content (or range)
Water	7732-18-5	231-791-2	-	Not Classified	40~70
Ethyleneglycol	107-21-1	203-473-3	603-027-00-1	Acute Toxicity – Oral, Category 4, H302	5~20
Glycerol	56-81-5	200-289-5	-	Not Classified	3~10
Carbon black	1333-86-4	215-609-9	-	Not Classified	3~6
2,2'-oxydiethanol	111-46-6	203-872-2	603-140-00-6	Acute Toxicity – Oral, Category 4, H302	1~5
2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6	603-096-00-8	Eye Damage/Irritation, Category 2, H319	1~2

4 First – aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most Important symptoms/effects, acute and delayed

1 Please see section 11.

Indication of any **immediate** medical **attention and** special treatment needed

1 Treat symptomatically.
2 Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher whish may . be used

Specific hazards arising from the substance or mixture

1 Development of hazardous combustion gases or vapor possible in the event of fire.
2 May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

1 As in any fife, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2 Fight fire from a safe distance, with adequate cover.
3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1 Use personal protective equipment, do not breathe gas/mist/ vapor /spray.
2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

1 Prevent further leakage or spillage if safe to do so.
2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations .
3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for safe handling

- Protective measures
  1 Handling is performed in a well ventilated place.
  2 Avoid contact with eyes.
- Measures to prevent fire
  1 Keep away from heat/sparks/open games/ hot surfaces.

- Measures to prevent aerosol and dust generation
  1 Not applicable.
- Advice on general occupational hygiene
  1 Wash hands and face after using of the substances.
  2 Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1 Keep containers tightly closed.
2 Keep away from heat/sparks/open flames/hot surfaces
3 Store away from incompatible materials and foodstuff containers

Specific and use (s)

1 in addition to use mentioned in the first parts , unforeseen other specific and uses.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Ethyleneglycol	South Korea	-	-	40	100
	New Zealand	-	-	50	127
	Ireland	20	52	40	104
	Germany (AGS)	10	26	20	52
	Denmark	10	26	20	52
	Australia	20	52	40	104
Glycerol	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100
	Belgium	-	10	-	-
	Australia	-	10	-	-
Carbon black	USA - OSHA	-	3.5	-	-
	South Korea	-	3.5	-	-
	Ireland	-	3.5	-	7
	France	-	3.5	-	-
	Denmark	-	3.5	-	7
	Australia	-	3	-	-
2,2'-oxydiethanol	Sweden	10	45	20	90
	New Zealand	23	101	-	-
	Ireland	23	100	-	-
	Germany (AGS)	10	44	40	176
	Denmark	2.5	11	5	22
	Australia	23	100	-	-
2-(2-butoxyethoxy)ethanol	Latvia	10	67.5	15	101.2
	Ireland	10	67.5	15	101.2
	Germany (AGS)	10	67	15	100
	Denmark	-	100	-	200
	Belgium	10	67.5	15	101.2
	Austria	10	67.5	15	101.2

- Biological limit values

Biological limit values No relevant regulations

- Monitoring methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2 GBZ/T 300.1-GBZ/T 300.160-2017; GBZ/T 300.161-GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

-Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Water	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyleneglycol	Inhalation	No data available	No data available	35 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Glycerol	Inhalation	No data available	No data available	56 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Carbon black	Inhalation	No data available	No data available	2 mg/m³	1~2 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2,2'-oxydiethanol	Inhalation	No data available	No data available	60 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-(2-butoxyethoxy)ethanol	Inhalation	No data available	No data available	67.5 mg/m³	67.5 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

- Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PXEC) No information available

- Engineering controls

1 Ensure adequate ventilation, especially in confined areas.
2 Ensure that eyewash stations and safety showers are close to the workstation location.
3 Set up emergency exit and necessary risk-elimination area.
4 Handle in accordance with good industrial hygiene and safety practice.

- Personal protection equipment

General requirement :	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapor , tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	in general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	jn general situation, skin and body protection are not needed.

9_Physical and chemical properties and safety characteristics

_Physical and chemical properties

Appearance	Liquid
Odor	No information available
Odor threshold	No information available
Ph	7-10
belting point/freezing point C°	No information available
initial boiling point and boiling	> 100
Flash point (Closed cup,C°)	> 67
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive	Upper limit: No information available; Lower IImit: No information available
Vapor pressure	No information available
Vapor density(Air=1) ,	No information available
Relative density (Water=1)	No information available
solubility	Soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature (°C)	No information available
Decomposition temperature{°C)	No information available
Viscosity	No information available
Explosive properties	not explosive
Oxidizing properties	not oxidizing

10_Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions
Chemical stability	Stable under proper operation and storage conditions
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with oxidants causes severe reactions, and may cause a fire or explosion
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Ethyleneglycol	4700mg/kg(Rat)	No information available	No information available
2,2'-oxydiethanol	12565mg/kg(Rat)	11890mg/kg(Rabbit)	No information available
Carbon black	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
2-(2-butoxyethoxy)ethanol	5660mg/kg(Rat)	2700mg/kg(Rabbit)	No information available
Glycerol	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Water	Not Listed	Not Listed
Ethyleneglycol	Not Listed	Not Listed
Glycerol	Not Listed	Not Listed
Carbon black	Category 2B	Not Listed
2,2'-oxydiethanol	Not Listed	Not Listed
2-(2-butoxyethoxy)ethanol	Not Listed	Not Listed

Others

Textile Digital Pigment ink

Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT• single exposure	Based on available data, the classification criteria are not met
STOT• repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutaqenicity	Based on available data, the classification criteria are not met
Reproductive toxicity (additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	LC_{50}: 54700mg/L (96h)(Fish)	EC_{50}: >1100mg/L (48h)(Crustaceans)	ErC_{50}: >1000mg/L (72h)(Algae)
2,2'-oxydiethanol	LC_{50}: 75200mg/L (96h)(Fish)	No information available	No information available
2-(2-butoxyethoxy)ethanol	LC_{50}: 1650mg/L (96h)(Fish)	No information available	No information available
Glycerol	LC_{50}: 68100mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	No information available	NOEC: 100mg/L(Crustaceans)	NOEC: 1000mg/L(Algae)

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Water	Low	Low
Ethyleneglycol	Low(Half-life = 24 days)	Low(Half-life = 3.46 days)
2,2'-oxydiethanol	Low	Low
2-(2-butoxyethoxy)ethanol	Low	Low

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Water	Low	Log Kow=-1.38
Ethyleneglycol	Low	BCF=200
2,2'-oxydiethanol	Low	BCF=180
2-(2-butoxyethoxy)ethanol	Low	BCF=46

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Water	Low	14.3
Ethyleneglycol	High	1
2,2'-oxydiethanol	High	1
2-(2-butoxyethoxy)ethanol	Low	10

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Water	not PBT/vPvB
Ethyleneglycol	not PBT/vPvB
Glycerol	not PBT/vPvB
Carbon black	not PBT/vPvB
2,2'-oxydiethanol	not PBT/vPvB
2-(2-butoxyethoxy)ethanol	not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14_Transport information

- Label and mark
  Transporting label : not applicable

- IMDG-CODE
  IMDG-CODE: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- IATA-DGR
  IATA-DGR: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- UN-ADR
  UN-ADR : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatiory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Water	√	√	√	√	√	√	√	√	√
Ethyleneglycol	√	√	√	√	√	√	√	√	√
Glycerol	√	√	√	√	√	√	√	√	√
Carbon black	√	√	√	√	√	√	√	√	√
2,2'-oxydiethanol	√	√	√	√	√	√	√	√	√
2-(2-butoxyethoxy)ethanol	√	√	√	√	√	√	√	√	√

[EINECS] European Inventory of Existing Commercial Chemical Substances
[TSCA] United States Toxic Substances Control Act Inventory
[DSL] Canadian Domestic Substances List
[IECSC] China Inventory of Existing Chemical Substances
[NZIoC] New Zealand Inventory of Chemicals
[PICCS] Philippines Inventory of Chemicals and Chemical Substances
[KECI] Existing and Evaluated Chemical Substances
[AICS] Australia Inventory of Chemical Substances
[ENCS] Existing And New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Water	×	×	×	√	×	×	×
Ethyleneglycol	×	×	×	√	√	×	×
Glycerol	×	×	×	√	√	×	×
Carbon black	×	×	×	√	√	×	×
2,2'-oxydiethanol	×	×	×	√	√	√	×
2-(2-butoxyethoxy)ethanol	×	×	√	√	√	×	×

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
[B] Substances requiring authorization under EU REACH regulation
[C] Substances restricted under EU REACH
[D] Pre-registered substances under EU REACH
[E] Registered substances under EU REACH
[F] Substance Evaluation — CoRAP under EU REACH
[G] List of priority substances under EU water policy (Directive 2455/2001/EC)

Note:

✓ Indicates that the substance included in the regulations.
x No data or not included in the regulations

16 Other Information

Information on revision

Creation Date :	2020/10/21
Revision Date :	2022/04/11
Reason for revision	-

Reference :

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2] IARC, website: http://www.iarc.fr/.
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportaHsubstancesearch/index.action.
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
NLM: ChemlDplus , website: http://chem.sis.mm.nih.gov/chemidplus/chemidlite.jsp,
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmaMibrary/erg.
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service
PC-STEL	Short term exposure limit
PC-TWA	Time weighted Average
MAC	Maximum Allowable Concentration
DNEL	Derived no effect level
PNEC	Predicted no effect concentration
NOEC	No observed effect concentration
LC50	Lethal concentration 50%
LD50	Lethal Dose 50 %
EC50	Effective Concentration 50%
ECx	Effective concentration X %
Pow	Partition coefficient Octanol : water

BCF	Bioconcentration factor
UN	The United Nation
OECD	Organization for Economic Co- operation and Development
IMDG	International Maritime dangerous goods
IARC	International agency for research on cancer
ICAO	International Civil Aviation organization
IATA	International Air transportation association
ACGIH	American conference of governmental industrial Hygienists
NFPA	National Fire Protection Association
NTP	National toxicology program
PST	Persistent , bioaccumulative , toxic
VPvB	very persistent , very bioaccumulative
CMR	carginogens , mutagens or substances toxic to reproduction
RPE	respiratory protective equipment

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation the data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes .
We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

DPI DG PRINTING SRL

DPI DG PRINTING s.r.l

CREATION DATE : 2020/10/21
REVISION DATE : 2022/04/11
VIERSION V2.0.0.1
Prepared according to EU regulation No. 2015/830

****** SAFETY DATA SHEET ******

1_Identification of the substance / mixture and of the company / undertaking

Product name : Textile Digital Pigment ink
SDS Name: **PICTA INK – YELLOW (giallo)**

Catalog Numbers: GB6944&gb12268

Company Identification (distributor's company) : DPI DG PRINTING s.r.l.
Via E. Salfari 14/ e - 31056 Biancade di Roncade (TV) – ITALY

For information, call: 0039-0422 798184
Email : amministrazione@ser-tec.org

1.2 Emergency telephone number

USA: Chemtrec: +001-800-424-9300
Outside USA: Chemtrec: +001-703-527-3887
24 Hour Emergency Phone Number

2 Hazards identification

[1] CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments Not classified as a dangerous substance.

[2] GHS Label elements

HAZARD PICTOGRAMS : NOT APPLICABLE
SIGNAL WORD : NOT APPLICABLE

Hazard statements NOT APPLICABLE

Precautionary statements
Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242: Use only non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands, face thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists get medical advice/attention.
P361: Remove/Take off immediately all contaminated clothing.
P381: In case of leakage, eliminate all ignition sources.
P404: Store in a closed container.
P501: Dispose of contents/container in accordance with local regulation

Other hazards
Not applicable.

3 Composition / information on ingredients

Substance / mixture

Component	CAS No.	EC No.	Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight % content (or range)
Water	7732-18-5	231-791-2	-	Not Classified	40~70
Ethyleneglycol	107-21-1	203-473-3	603-027-00-1	Acute Toxicity – Oral, Category 4, H302	5~20
Glycerol	56-81-5	200-289-5	-	Not Classified	3~10
Carbon black	1333-86-4	215-609-9	-	Not Classified	3~6
2,2'-oxydiethanol	111-46-6	203-872-2	603-140-00-6	Acute Toxicity – Oral, Category 4, H302	1~5
2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6	603-096-00-8	Eye Damage/Irritation, Category 2, H319	1~2

4 First – aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most Important symptoms/effects, acute and delayed

1 Please see section 11.

Indication of any **immediate** medical **attention and** special treatment needed

1 Treat symptomatically.
2 Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher whish may . be used

Specific hazards arising from the substance or mixture

1 Development of hazardous combustion gases or vapor possible in the event of fire.
2 May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

1 As in any fife, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2 Fight fire from a safe distance, with adequate cover.
3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1 Use personal protective equipment, do not breathe gas/mist/ vapor /spray.
2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

1 Prevent further leakage or spillage if safe to do so.
2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations .
3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for safe handling

- Protective measures
  1 Handling is performed in a well ventilated place.
  2 Avoid contact with eyes.
- Measures to prevent fire
  1 Keep away from heat/sparks/open games/ hot surfaces.

- Measures to prevent aerosol and dust generation
  1 Not applicable.
- Advice on general occupational hygiene
  1 Wash hands and face after using of the substances.
  2 Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1 Keep containers tightly closed.
2 Keep away from heat/sparks/open flames/hot surfaces
3 Store away from incompatible materials and foodstuff containers

Specific and use (s)

1 in addition to use mentioned in the first parts , unforeseen other specific and uses.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Ethyleneglycol	South Korea	-	-	40	100
	New Zealand	-	-	50	127
	Ireland	20	52	40	104
	Germany (AGS)	10	26	20	52
	Denmark	10	26	20	52
	Australia	20	52	40	104
Glycerol	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100
	Belgium	-	10	-	-
	Australia	-	10	-	-
Carbon black	USA - OSHA	-	3.5	-	-
	South Korea	-	3.5	-	-
	Ireland	-	3.5	-	7
	France	-	3.5	-	-
	Denmark	-	3.5	-	7
	Australia	-	3	-	-
2,2'-oxydiethanol	Sweden	10	45	20	90
	New Zealand	23	101	-	-
	Ireland	23	100	-	-
	Germany (AGS)	10	44	40	176
	Denmark	2.5	11	5	22
	Australia	23	100	-	-
2-(2-butoxyethoxy)ethanol	Latvia	10	67.5	15	101.2
	Ireland	10	67.5	15	101.2
	Germany (AGS)	10	67	15	100
	Denmark	-	100	-	200
	Belgium	10	67.5	15	101.2
	Austria	10	67.5	15	101.2

- Biological limit values

Biological limit values No relevant regulations

- Monitoring methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2 GBZ/T 300.1-GBZ/T 300.160-2017; GBZ/T 300.161-GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

-Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Water	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyleneglycol	Inhalation	No data available	No data available	35 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Glycerol	Inhalation	No data available	No data available	56 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Carbon black	Inhalation	No data available	No data available	2 mg/m³	1~2 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2,2'-oxydiethanol	Inhalation	No data available	No data available	60 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-(2-butoxyethoxy)ethanol	Inhalation	No data available	No data available	67.5 mg/m³	67.5 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

- Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PXEC) No information available

- Engineering controls

1 Ensure adequate ventilation, especially in confined areas.
2 Ensure that eyewash stations and safety showers are close to the workstation location.
3 Set up emergency exit and necessary risk-elimination area.
4 Handle in accordance with good industrial hygiene and safety practice.

- Personal protection equipment

General requirement :	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapor , tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	in general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	jn general situation, skin and body protection are not needed.

9_Physical and chemical properties and safety characteristics

_Physical and chemical properties

Appearance	Liquid
Odor	No information available
Odor threshold	No information available
Ph	7-10
belting point/freezing point C°	No information available
initial boiling point and boiling	> 100
Flash point (Closed cup,C°)	> 67
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive	Upper limit: No information available; Lower IImit: No information available
Vapor pressure	No information available
Vapor density(Air=1) ,	No information available
Relative density (Water=1)	No information available
solubility	Soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature (°C)	No information available
Decomposition temperature{°C)	No information available
Viscosity	No information available
Explosive properties	not explosive
Oxidizing properties	not oxidizing

10_Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions
Chemical stability	Stable under proper operation and storage conditions
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with oxidants causes severe reactions, and may cause a fire or explosion
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Ethyleneglycol	4700mg/kg(Rat)	No information available	No information available
2,2'-oxydiethanol	12565mg/kg(Rat)	11890mg/kg(Rabbit)	No information available
Carbon black	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
2-(2-butoxyethoxy)ethanol	5660mg/kg(Rat)	2700mg/kg(Rabbit)	No information available
Glycerol	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Water	Not Listed	Not Listed
Ethyleneglycol	Not Listed	Not Listed
Glycerol	Not Listed	Not Listed
Carbon black	Category 2B	Not Listed
2,2'-oxydiethanol	Not Listed	Not Listed
2-(2-butoxyethoxy)ethanol	Not Listed	Not Listed

Others

Textile Digital Pigment ink

Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT• single exposure	Based on available data, the classification criteria are not met
STOT• repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutaqenicity	Based on available data, the classification criteria are not met
Reproductive toxicity (additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	LC_{50}: 54700mg/L (96h)(Fish)	EC_{50}: >1100mg/L (48h)(Crustaceans)	ErC_{50}: >1000mg/L (72h)(Algae)
2,2'-oxydiethanol	LC_{50}: 75200mg/L (96h)(Fish)	No information available	No information available
2-(2-butoxyethoxy)ethanol	LC_{50}: 1650mg/L (96h)(Fish)	No information available	No information available
Glycerol	LC_{50}: 68100mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	No information available	NOEC: 100mg/L(Crustaceans)	NOEC: 1000mg/L(Algae)

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Water	Low	Low
Ethyleneglycol	Low(Half-life = 24 days)	Low(Half-life = 3.46 days)
2,2'-oxydiethanol	Low	Low
2-(2-butoxyethoxy)ethanol	Low	Low

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Water	Low	Log Kow=-1.38
Ethyleneglycol	Low	BCF=200
2,2'-oxydiethanol	Low	BCF=180
2-(2-butoxyethoxy)ethanol	Low	BCF=46

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Water	Low	14.3
Ethyleneglycol	High	1
2,2'-oxydiethanol	High	1
2-(2-butoxyethoxy)ethanol	Low	10

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Water	not PBT/vPvB
Ethyleneglycol	not PBT/vPvB
Glycerol	not PBT/vPvB
Carbon black	not PBT/vPvB
2,2'-oxydiethanol	not PBT/vPvB
2-(2-butoxyethoxy)ethanol	not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14_Transport information

- Label and mark
  Transporting label : not applicable

- IMDG-CODE
  IMDG-CODE: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- IATA-DGR
  IATA-DGR: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- UN-ADR
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15 Regulatiory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Water	√	√	√	√	√	√	√	√	√
Ethyleneglycol	√	√	√	√	√	√	√	√	√
Glycerol	√	√	√	√	√	√	√	√	√
Carbon black	√	√	√	√	√	√	√	√	√
2,2'-oxydiethanol	√	√	√	√	√	√	√	√	√
2-(2-butoxyethoxy)ethanol	√	√	√	√	√	√	√	√	√

[EINECS] European Inventory of Existing Commercial Chemical Substances
[TSCA] United States Toxic Substances Control Act Inventory
[DSL] Canadian Domestic Substances List
[IECSC] China Inventory of Existing Chemical Substances
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[AICS] Australia Inventory of Chemical Substances
[ENCS] Existing And New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Water	×	×	×	√	×	×	×
Ethyleneglycol	×	×	×	√	√	×	×
Glycerol	×	×	×	√	√	×	×
Carbon black	×	×	×	√	√	×	×
2,2'-oxydiethanol	×	×	×	√	√	√	×
2-(2-butoxyethoxy)ethanol	×	×	√	√	√	×	×

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
[B] Substances requiring authorization under EU REACH regulation
[C] Substances restricted under EU REACH
[D] Pre-registered substances under EU REACH
[E] Registered substances under EU REACH
[F] Substance Evaluation — CoRAP under EU REACH
[G] List of priority substances under EU water policy (Directive 2455/2001/EC)

Note:

✓ Indicates that the substance included in the regulations.
x No data or not included in the regulations

16 Other Information

Information on revision

Creation Date :	2020/10/21
Revision Date :	2022/04/11
Reason for revision	-

Reference :

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2] IARC, website: http://www.iarc.fr/.
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportaHsubstancesearch/index.action.
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
NLM: ChemlDplus , website: http://chem.sis.mm.nih.gov/chemidplus/chemidlite.jsp,
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmaMibrary/erg.
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service
PC-STEL	Short term exposure limit
PC-TWA	Time weighted Average
MAC	Maximum Allowable Concentration
DNEL	Derived no effect level
PNEC	Predicted no effect concentration
NOEC	No observed effect concentration
LC50	Lethal concentration 50%
LD50	Lethal Dose 50 %
EC50	Effective Concentration 50%
ECx	Effective concentration X %
Pow	Partition coefficient Octanol : water

BCF	Bioconcentration factor
UN	The United Nation
OECD	Organization for Economic Co- operation and Development
IMDG	International Maritime dangerous goods
IARC	International agency for research on cancer
ICAO	International Civil Aviation organization
IATA	International Air transportation association
ACGIH	American conference of governmental industrial Hygienists
NFPA	National Fire Protection Association
NTP	National toxicology program
PST	Persistent , bioaccumulative , toxic
VPvB	very persistent , very bioaccumulative
CMR	carginogens , mutagens or substances toxic to reproduction
RPE	respiratory protective equipment

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation the data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes .
We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

DPI DG PRINTING SRL

DPI DG PRINTING s.r.l

CREATION DATE : 2020/10/21
REVISION DATE : 2022/04/11
VIERSION V2.0.0.1
Prepared according to EU regulation No. 2015/830

****** SAFETY DATA SHEET ******

1_Identification of the substance / mixture and of the company / undertaking

Product name : Textile Digital Pigment ink
SDS Name: **PICTA INK – WHITE (bianco)**

Catalog Numbers: GB6944&gb12268

Company Identification (distributor's company) : DPI DG PRINTING s.r.l.
Via E. Salfari 14/ e - 31056 Biancade di Roncade (TV) – ITALY

For information, call: 0039-0422 798184
Email : amministrazione@ser-tec.org

1.2 Emergency telephone number

USA: Chemtrec: +001-800-424-9300
Outside USA: Chemtrec: +001-703-527-3887
24 Hour Emergency Phone Number

2_Hazards identification

[1] CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments Not classified as a dangerous substance.

[2] GHS Label elements

HAZARD PICTOGRAMS : NOT APPLICABLE
SIGNAL WORD : NOT APPLICABLE

Hazard statements NOT APPLICABLE

Precautionary statements
Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242: Use only non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands, face thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists get medical advice/attention.
P361: Remove/Take off immediately all contaminated clothing.
P381: In case of leakage, eliminate all ignition sources.
P404: Store in a closed container.
P501: Dispose of contents/container in accordance with local regulation

Other hazards
Not applicable.

3 Composition / information on ingredients

Substance / mixture

Component	CAS No.	EC No.	Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight % content (or range)
Water	7732-18-5	231-791-2	-	Not Classified	40~70
Ethyleneglycol	107-21-1	203-473-3	603-027-00-1	Acute Toxicity – Oral, Category 4, H302	5~20
Glycerol	56-81-5	200-289-5	-	Not Classified	3~10
Carbon black	1333-86-4	215-609-9	-	Not Classified	3~6
2,2'-oxydiethanol	111-46-6	203-872-2	603-140-00-6	Acute Toxicity – Oral, Category 4, H302	1~5
2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6	603-096-00-8	Eye Damage/Irritation, Category 2, H319	1~2

4 First – aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	No harm in general situation. First aid is not needed.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most Important symptoms/effects, acute and delayed

1 Please see section 11.

Indication of any **immediate** medical **attention and** special treatment needed

1 Treat symptomatically.
2 Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher whish may . be used

Specific hazards arising from the substance or mixture

1 Development of hazardous combustion gases or vapor possible in the event of fire.
2 May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

1 As in any fife, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2 Fight fire from a safe distance, with adequate cover.
3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1 Use personal protective equipment, do not breathe gas/mist/ vapor /spray.
2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

1 Prevent further leakage or spillage if safe to do so.
2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations .
3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for safe handling

- Protective measures
  1 Handling is performed in a well ventilated place.
  2 Avoid contact with eyes.
- Measures to prevent fire
  1 Keep away from heat/sparks/open games/ hot surfaces.

- Measures to prevent aerosol and dust generation
  1 Not applicable.
- Advice on general occupational hygiene
  1 Wash hands and face after using of the substances.
  2 Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1 Keep containers tightly closed.
2 Keep away from heat/sparks/open flames/hot surfaces
3 Store away from incompatible materials and foodstuff containers

Specific and use (s)

1 in addition to use mentioned in the first parts , unforeseen other specific and uses.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Ethyleneglycol	South Korea	-	-	40	100
	New Zealand	-	-	50	127
	Ireland	20	52	40	104
	Germany (AGS)	10	26	20	52
	Denmark	10	26	20	52
	Australia	20	52	40	104
Glycerol	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100
	Belgium	-	10	-	-
	Australia	-	10	-	-
Carbon black	USA - OSHA	-	3.5	-	-
	South Korea	-	3.5	-	-
	Ireland	-	3.5	-	7
	France	-	3.5	-	-
	Denmark	-	3.5	-	7
	Australia	-	3	-	-
2,2'-oxydiethanol	Sweden	10	45	20	90
	New Zealand	23	101	-	-
	Ireland	23	100	-	-
	Germany (AGS)	10	44	40	176
	Denmark	2.5	11	5	22
	Australia	23	100	-	-
2-(2-butoxyethoxy)ethanol	Latvia	10	67.5	15	101.2
	Ireland	10	67.5	15	101.2
	Germany (AGS)	10	67	15	100
	Denmark	-	100	-	200
	Belgium	10	67.5	15	101.2
	Austria	10	67.5	15	101.2

- Biological limit values

Biological limit values No relevant regulations

- Monitoring methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2 GBZ/T 300.1-GBZ/T 300.160-2017; GBZ/T 300.161-GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

-Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Water	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethyleneglycol	Inhalation	No data available	No data available	35 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Glycerol	Inhalation	No data available	No data available	56 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Carbon black	Inhalation	No data available	No data available	2 mg/m³	1~2 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2,2'-oxydiethanol	Inhalation	No data available	No data available	60 mg/m³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-(2-butoxyethoxy)ethanol	Inhalation	No data available	No data available	67.5 mg/m³	67.5 mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

- Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PXEC) No information available

- Engineering controls

1 Ensure adequate ventilation, especially in confined areas.
2 Ensure that eyewash stations and safety showers are close to the workstation location.
3 Set up emergency exit and necessary risk-elimination area.
4 Handle in accordance with good industrial hygiene and safety practice.

- Personal protection equipment

General requirement :	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapor , tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	in general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	jn general situation, skin and body protection are not needed.

9_Physical and chemical properties and safety characteristics

_Physical and chemical properties

Appearance	Liquid
Odor	No information available
Odor threshold	No information available
Ph	7-10
belting point/freezing point C°	No information available
initial boiling point and boiling	> 100
Flash point (Closed cup,C°)	> 67
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive	Upper limit: No information available; Lower IImit: No information available
Vapor pressure	No information available
Vapor density(Air=1) ,	No information available
Relative density (Water=1)	No information available
solubility	Soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature (°C)	No information available
Decomposition temperature{°C)	No information available
Viscosity	No information available
Explosive properties	not explosive
Oxidizing properties	not oxidizing

10_Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions
Chemical stability	Stable under proper operation and storage conditions
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with oxidants causes severe reactions, and may cause a fire or explosion
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Ethyleneglycol	4700mg/kg(Rat)	No information available	No information available
2,2'-oxydiethanol	12565mg/kg(Rat)	11890mg/kg(Rabbit)	No information available
Carbon black	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
2-(2-butoxyethoxy)ethanol	5660mg/kg(Rat)	2700mg/kg(Rabbit)	No information available
Glycerol	12600mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Water	Not Listed	Not Listed
Ethyleneglycol	Not Listed	Not Listed
Glycerol	Not Listed	Not Listed
Carbon black	Category 2B	Not Listed
2,2'-oxydiethanol	Not Listed	Not Listed
2-(2-butoxyethoxy)ethanol	Not Listed	Not Listed

Others

Textile Digital Pigment ink

Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT• single exposure	Based on available data, the classification criteria are not met
STOT• repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutaqenicity	Based on available data, the classification criteria are not met
Reproductive toxicity (additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	LC_{50}: 54700mg/L (96h)(Fish)	EC_{50}: >1100mg/L (48h)(Crustaceans)	ErC_{50}: >1000mg/L (72h)(Algae)
2,2'-oxydiethanol	LC_{50}: 75200mg/L (96h)(Fish)	No information available	No information available
2-(2-butoxyethoxy)ethanol	LC_{50}: 1650mg/L (96h)(Fish)	No information available	No information available
Glycerol	LC_{50}: 68100mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Ethyleneglycol	No information available	NOEC: 100mg/L(Crustaceans)	NOEC: 1000mg/L(Algae)

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Water	Low	Low
Ethyleneglycol	Low(Half-life = 24 days)	Low(Half-life = 3.46 days)
2,2'-oxydiethanol	Low	Low
2-(2-butoxyethoxy)ethanol	Low	Low

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Water	Low	Log Kow=-1.38
Ethyleneglycol	Low	BCF=200
2,2'-oxydiethanol	Low	BCF=180
2-(2-butoxyethoxy)ethanol	Low	BCF=46

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Water	Low	14.3
Ethyleneglycol	High	1
2,2'-oxydiethanol	High	1
2-(2-butoxyethoxy)ethanol	Low	10

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Water	not PBT/vPvB
Ethyleneglycol	not PBT/vPvB
Glycerol	not PBT/vPvB
Carbon black	not PBT/vPvB
2,2'-oxydiethanol	not PBT/vPvB
2-(2-butoxyethoxy)ethanol	not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14_Transport information

- Label and mark
  Transporting label : not applicable

- IMDG-CODE
  IMDG-CODE: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- IATA-DGR
  IATA-DGR: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

- UN-ADR
  UN-ADR : NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatiory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Water	√	√	√	√	√	√	√	√	√
Ethyleneglycol	√	√	√	√	√	√	√	√	√
Glycerol	√	√	√	√	√	√	√	√	√
Carbon black	√	√	√	√	√	√	√	√	√
2,2'-oxydiethanol	√	√	√	√	√	√	√	√	√
2-(2-butoxyethoxy)ethanol	√	√	√	√	√	√	√	√	√

[EINECS] European Inventory of Existing Commercial Chemical Substances
[TSCA] United States Toxic Substances Control Act Inventory
[DSL] Canadian Domestic Substances List
[IECSC] China Inventory of Existing Chemical Substances
[NZIoC] New Zealand Inventory of Chemicals
[PICCS] Philippines Inventory of Chemicals and Chemical Substances
[KECI] Existing and Evaluated Chemical Substances
[AICS] Australia Inventory of Chemical Substances
[ENCS] Existing And New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Water	×	×	×	√	×	×	×
Ethyleneglycol	×	×	×	√	√	×	×
Glycerol	×	×	×	√	√	×	×
Carbon black	×	×	×	√	√	×	×
2,2'-oxydiethanol	×	×	×	√	√	√	×
2-(2-butoxyethoxy)ethanol	×	×	√	√	√	×	×

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
[B] Substances requiring authorization under EU REACH regulation
[C] Substances restricted under EU REACH
[D] Pre-registered substances under EU REACH
[E] Registered substances under EU REACH
[F] Substance Evaluation — CoRAP under EU REACH
[G] List of priority substances under EU water policy (Directive 2455/2001/EC)

Note:

✓ Indicates that the substance included in the regulations.
x No data or not included in the regulations

16 Other Information

Information on revision

Creation Date :	2020/10/21
Revision Date :	2022/04/11
Reason for revision	-

Reference :

[1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2] IARC, website: http://www.iarc.fr/.
[3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportaHsubstancesearch/index.action.
[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
NLM: ChemlDplus , website: http://chem.sis.mm.nih.gov/chemidplus/chemidlite.jsp,
[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmaMibrary/erg.
[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service
PC-STEL	Short term exposure limit
PC-TWA	Time weighted Average
MAC	Maximum Allowable Concentration
DNEL	Derived no effect level
PNEC	Predicted no effect concentration
NOEC	No observed effect concentration
LC50	Lethal concentration 50%
LD50	Lethal Dose 50 %
EC50	Effective Concentration 50%
ECx	Effective concentration X %
Pow	Partition coefficient Octanol : water

BCF	Bioconcentration factor
UN	The United Nation
OECD	Organization for Economic Co- operation and Development
IMDG	International Maritime dangerous goods
IARC	International agency for research on cancer
ICAO	International Civil Aviation organization
IATA	International Air transportation association
ACGIH	American conference of governmental industrial Hygienists
NFPA	National Fire Protection Association
NTP	National toxicology program
PST	Persistent , bioaccumulative , toxic
VPvB	very persistent , very bioaccumulative
CMR	carginogens , mutagens or substances toxic to reproduction
RPE	respiratory protective equipment

Disclaimer

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We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

DPI DG PRINTING SRL

Date: 2022/04/11

DPI DG PRINTING s.r.l

**** MATERIAL SAFETY DATA SHEET ****

MSDS Name : **CLEANING SOLUTION PICTA**

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name : CLEANING SOLUTION PICTA
Catalog : Water-based cleaning for printers (cleaning solution for PICTA INKS)
Synonyms:I nk-jet ink

Company Identification (distributor's company) : DPI DG PRINTING s.r.l.
Via E. Salfari 14/ e - 31056 Biancade di Roncade (TV) – ITALY

For information, call: 0039-0422 798184
Email : amministrazione@ser-tec.org

1.2 Emergency telephone number

USA: Chemtrec: +001-800-424-9300
Outside USA: Chemtrec: +001-703-527-3887
24 Hour Emergency Phone Number

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#	UN/NA
56-81-5	Glycerol	20-35	200-289-5	Number 1760
7732-18-5	Water	20-60	231-791-2	N/A
111-96-6	2-Methoxyethyl ether	5-25	203-924-4	N/A

Hazard Symbols : No
Risk Phrases : None

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW
Eye: Irritating
Skin: Irritating
Ingestion : Irritating
Inhalation: Irritating
Chronic: NO

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: Rinse opened eye for several minutes under running water, then consult doctor.
Skin: Immediately wash with water and soap and rinse thoroughly
Ingestion : Induce vomiting and call for medical help
Inhalation: Supply fresh air or oxygen; then call for doctor.
Notes to Physician

****** SECTION 5 - FIRE FIGHTING MEASURES ******

Non flammable liquid.
No special explosion hazards are known.

****** SECTION 6 - ACCIDENTAL RELEASE MEASURES ******

General Information:

: No pollutions

Spills/Leaks: Wash immediately
.

***** SECTION 7 - HANDLING and STORAGE ******

Handling : Light removing
Storage : In dry environment

****** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ******

Engineering Controls: N/A

Personal Protective Equipment
Avoid contacting with eye, moth

****** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ******

Physical State : liquid
Odor : Fragrance / pH: 7-9
Vapor Pressure: N/A
Viscosity : 1.5-6 Dynamic
Boiling Point : 95-110℃ Freezing/Melting
Point : -18℃ Autoignition Temperature: No
Flash Point : above 130℃
Explosion Limits, lower: N/A Explosion Limits, upper: N/A
Decomposition Temperature: N/A
Solubility in water: Soluble
Specific Gravity/Density : N/A
Molecular Formula : N/A
Molecular Weight : N/A

****** SECTION 10 - STABILITY AND REACTIVITY ******

Chemical Stability : No decomposition if used according to specification
Conditions to Avoid: Avoid high temperature over 100℃ and low temperature -18℃

****** SECTION 11 - TOXICOLOGICAL INFORMATION ******

RTECS# :
Routes of Overexposure : Eye, skin, inhalation, and oral
Acute Health Hazards:
Overexposure of eye surface to ink may be mildly irritation..
Overexposure of skin to ink contact man cause iritation and some people swelling and redness.

Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation.
Intentional or accidental oral ingestion may cause an upset stomach.
Chronic Health Hazards : None known

****** SECTION 12 - ECOLOGICAL INFORMATION ******

Folllow the appearance cautions which do not affect environment in the cases, such as abandonment, at the time of disclosure.

****** SECTION 13 - DISPOSAL CONSIDERATIONS ******

Container disposal
Empty container retains product residue.
Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product.

****** SECTION 14 - TRANSPORT INFORMATION ******

hazard classification - None / Non-hazardou
Safe by Air / Sea: Under 62th edition of the IATA DANGEROUS GOODS REGULATIONS 2021
Under IMDG transport Code

Common
General cautions of the clause of the cautions on handling and storage are followed.

Land transportation
When it corresponds to Fire Service Law and labor security and hygiene law, the place appointed about transportation of a statute is followed.

Marine transportation
The place set to Law for Safety to Vessels is followed.

Air transportation
The place set to the Aviation Act is followed.

*****SECTION 15 – REGULATORY INFORMATION *****

OSHA STATUS : Product not tested. But is considered to be of relatively low toxicity.

TSCA STATUS : This product meets the requirements of the Toxic Substances Control Act.

SARA TITLE III : Product not listed. SARA listed ingredients at or above De Minim is reporting levels are noted in paragraph 2, if any.

RCRA HAZARDOUS WASTE NUMBER /STATUS : If discarded in its purchased form, this product would not be a federal hazardous waste either by listing or by characteristic. States, however, often have stricter criteria. Users should check with their state regulatory agencies for current hazardous waste criteria. Under RCRA it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40CFR261 20-24).

67/548/EEC And 1999/45/EC Product isn't classified as dangerous.

67/548 / EEC和1999/45 / EC

*****SECTION 16 – OTHER INFORMATION *****

This MSDS contains health, safety, and environmental information and it was created based on the data which can come to hand at present, information, and data since evaluation of danger and detrimental nature is not necessarily enough, be careful of handling enough.

.

It does not replace any precautionary language or use and disposal information which accompanies the product.

DPI DG PRINTING SRL

DPI DG PRINTING SRL
VIA E. SALGARI 14/ D - 31056 BIANCADE DI
RONCADE (TV) ITALY

REVISION 2 – 9/4/2021

MATERIAL SAFETY DATA SHEET

1.Material name and manufacturer information

1.1 Product identifier

Product NAME **DTF POWDER / COLLA PER DTF**

Country of origin : EU

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

Recommended use: Printing aid
Uses advised against:
All uses not listed in the recommended one

1.3 Details of the supplier (distributor's company) of the safety data sheet

DPI DG PRINITNG SRL
Via E. Salgari 14/e – 31056
Biancade di Roncade (TV)
ITALIA

For further information, please contact
Contact person
Phone +39042279818

E-mail address
amministrazione@ser-tec.org

1.4 Emergency telephone number

Phone +39042279818

SECTION 2: Hazards identification

2.1. Substance or mixture classification
EC regulation criteria 1272/2008 (CLP):
The product is not considered dangerous according to EC Regulation 1272/2008 (CLP).
Physico-chemical effects harmful to human health and the environment:
No other danger
2.2. Label elements
Hazard pictograms: None
Hazard statements: None
Precautionary statements: None
Special Provisions: None
Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other dangers
VPvB Substances: None - PBT Substances: None
Other dangers: None

SECTION 3: Composition / information on ingredients

3.1. Substances
Identification of the substance:
None.

3.2. Blends
N.D.

SECTION 4: first aid measures

4.1. Description of first aid measures
Skin contact:
Wash thoroughly with soap and water.
Eye contact:
In case of contact with eyes, wash immediately and abundantly with water e
consult a doctor.
Ingestion:
Do not under any circumstances induce vomiting.
SEEK MEDICAL EXAMINATION IMMEDIATELY.
Inhalation:
Take the injured person to fresh air and keep him warm and at rest.
4.2. Most important symptoms and effects, both acute and delayed
Nobody
4.3. Indication of any immediate medical attention and special treatment needed
Treatment: None

SECTION 5: Firefighting measures

5.1. Fire fighting
Recommended fire extinguishers:
Water, CO2, Foam, Chemical powders depending on the materials involved in the fire. Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:
Water on live equipment and fires of flammable liquids (solvents, oils, gasoline)
5.2. Special hazards arising from the substance or mixture
Do not inhale the gases produced by the explosion and combustion. Burning produces heavy smoke.
5.3. Recommendations for firefighters
Use suitable respiratory equipment.
Collect the contaminated water used to extinguish the fire separately.
Do not discharge it into the sewer system.
If feasible from a safety point of view, move the containers from the area of immediate danger not damaged

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protective equipment. Move people to a safe place.
Consult the protective measures set out in points 7 and 8.
6.2. Environmental precautions
Prevent penetration into the soil / subsoil. Prevent runoff into surface water o in the sewer system.
Retain contaminated washing water and eliminate it.
In the event of a gas leak or entry into waterways, soil or the sewer system, inform the responsible authorities.
Material suitable for collection: absorbent, organic material, sand
6.3. Methods and materials for containment and cleaning up
Wash with plenty of water.
6.4. Reference to other sections
See also paragraphs 8 and 13

SECTION 7: handling and storage
7.1. Precautions for Safe Handling
Avoid contact with skin and eyes, inhalation of vapors and mists.
See also paragraph 8 for recommended protective devices. General recommendations on occupational hygiene:
At work do not eat or drink.
7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed. Incompatible materials:
None in particular.
Indication for the premises:
Adequately ventilated rooms.
7.3. Specific end uses
No particular use

SECTION 8: Exposure controls / personal protection
8.1. Control parameters
There are no occupational exposure limits available
DNEL Exposure Limit Values N.A.
PNEC Exposure Limit Values
N.D.
8.2. Exposure controls

Eye protection:
Dust protection glasses.
Skin protection:
Protective clothing with resistance to the penetration of liquid chemical agents (EN 14605) and with electrostatic properties (EN 1149)
Hand protection:
Chemical protective gloves EN 374
Respiratory protection:
Filtering half mask (DIN EN 149).
Thermal risks:
Nobody
Environmental exposure controls: None
Appropriate engineering controls: None

SECTION 9: physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Method:	Notes:
Appearance and color:	powder, white	-	-
Odor:	N.D.	-	-
Odor threshold:	N.D.	-	-
pH:	N.D.	-	-
Fusion point/ freezing:	120 - 130 ° C	-	-
Initial boiling point and boiling range:	N.D.	-	-
Flash point:	N.D.	-	-
Evaporation rate:	N.D.	-	-
Solid / gas flammability:	N.D.	-	-
Upper / lower flammability or explosion limit:	N.D.	-	-
Vapor pressure:	N.D.	-	-
Vapor density:	N.D.	-	-
Relative density:	1 g / cm3 20 ° C	-	-
Water solubility:	N.D.	-	-
Solubility in oil:	N.D.	-	-
Partition coefficient (n-octanol / water):	N.D.	-	-
Auto-ignition temperature:>	350 ° C	-	-
Decomposition temperature:	N.D.	-	-
Viscosity:	N.D.	-	-
Explosive properties:	N.D.	-	-
Oxidizing properties:	N.D.	-	-

9.2. Other information

Miscibility:	N.D.	-	-
Fat solubility:	N.D.	-	-
Conductivity:	N.D.	-	-
Characteristic properties of groups of substances	N.D.	-	-

SECTION 10: stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Nobody

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Nobody.

SECTION 11: toxicological information

11.1. Information on toxicological effects

Toxicological information of the substance: THERMOPLASTIC POWDER EL

a) acute toxicity : Not classified

Based on available data, the classification criteria are not met.

b) skin corrosion / irritation : Not classified

Based on available data, the classification criteria are not met.

c) serious eye damage / eye irritation : Not classified

Based on available data, the classification criteria are not met.

d) respiratory or skin sensitization : Not classified

Based on available data, the classification criteria are not met.

e) germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met.

f) carcinogenicity : Not classified

Based on available data, the classification criteria are not met.

g) reproductive toxicity : Not classified

Based on available data, the classification criteria are not met.

h) specific target organ toxicity (STOT) - single exposure : Not classified

Based on available data, the classification criteria are not met.

i) specific target organ toxicity (STOT) - repeated exposure : Not classified

Based on available data, the classification criteria are not met.

j) danger in case of aspiration : Not classified

Based on available data, the classification criteria are not met.

SECTION 12: ecological information

12.1. Toxicity

Use according to good working practices, avoiding to disperse the product in the environment.

THERMOPLASTIC POWDER EL

Not classified for environmental hazards

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

N.D.

12.3. Bioaccumulation potential
N.D.
12.4. Mobility in soil
N.D.
12.5. Results of PBT and vPvB assessment
VPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
Nobody

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover if possible. Operate according to local and national regulations.

SECTION 14: Transport information

14.1. UN number
Not classified as dangerous in the meaning of transport regulations
14.2. UN proper shipping name N.A.
14.3. Transport hazard classes
N.D.
14.4. Packing group
N.D.
14.5. Dangers for the environment
ADR-Environmental pollutant: No
IMDG-Marine pollutant: No
14.6. Special precautions for users
N.D.
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code No.

SECTION 15: Regulatory information

15.1. Health, safety and environmental legislation and regulations specific to the substance or mixture
Legislative Decree 9/4/2008 n. 81
D.M. Work 02/26/2004 (Occupational exposure limits) Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) no. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) no. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) no. 944/2013 (ATP 5 CLP)
Regulation (EU) no. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)

Restrictions related to the product or the substances contained according to Annex XVII of the Regulation (EC) 1907/2006 (REACH) and subsequent amendments: Restrictions relating to the product:
No restrictions.
Restrictions related to the substances contained: No restrictions.
Ready to use
Volatile Organic Compounds - VOC = 0.00% Volatile Organic Compounds - VOC = 0.00 g / Kg
Volatile Organic Compounds - VOC = 0.00 g / l
Volatile CMR substances = 0.00%
Volatile halogenated substances with R40 = 0.00% Organic carbon - C = 0.00
Where applicable, refer to the following regulations: Ministerial Circulars 46 and 61 (Aromatic amines). Directive 2012/18 / EU (Seveso III)
Regulation 648/2004 / EC (Detergents).
D.L. 3/4/2006 n. 152 Environmental regulations
Dir. 2004/42 / EC (VOC Directive)
WGK classification (Water hazard class - Verwaltungsvorschrift wassergefÃ¤hrdende Fabrics)

Provisions relating to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1
Nobody

15.2. Chemical safety assessment
A chemical safety assessment has not been carried out for the substance

SECTION 16: other information

Paragraphs modified from previous revision: SECTION 15: Regulatory information

This document has been written by an SDS technician who has received adequate training.
Main bibliographic sources:
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Center, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
CCNL - Annex 1
National Institute of Health - National Inventory of Chemical Substances
The information contained herein is based on our knowledge as of the above date. They refer only to the product indicated and do not constitute a guarantee of particular quality.
The user is required to ensure the suitability and completeness of such information in relation to the specific use that must be made of it.
This sheet supersedes any previous edition.

ADR: European agreement concerning the international transport of dangerous goods by road.
CAS: Chemical Abstract Service (division of American Chemical Society).
CLP: Classification, Labeling, Packaging. DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Chemical Substances on the Market.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: General Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous goods regulation of the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions of the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC50: Lethal concentration for 50 percent of the population tested.
LD50: Lethal dose for 50 percent of the population tested.
PNEC: Predicted No Effect Concentration.
RID: Regulation concerning the international transport of dangerous goods by rail.
STA: Estimation of acute toxicity
STAmix: Acute Toxicity Estimate (Mixtures) STEL: Short Term Exposure Limit.
STOT: Specific organ target toxicity.
TLV: Threshold Limit Value.
TWA: Time weighted average
WGK: German water hazard class.

TESTEX AG, Swiss Textile Testing Institute
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OEKO-TEX®
INSPIRING CONFIDENCE

CERTIFICATE

Shenzhen Inkbank Graphic Technology Co., Ltd.
C Building, Hejing Industry Park,
Heping Fuyong Street, Baoan District
Guangdong Province
518103 Shenzhen, CHINA

is granted ECO PASSPORT by OEKO-TEX® certification and the right to use its trademark for the certified products listed below. This is based on the test report **SH150 194016.1**.

OEKO-TEX®
INSPIRING CONFIDENCE
ECO PASSPORT
SH150 194016 TESTEX
Textile and leather chemicals. Tested and verified.
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Scope

ECO PASSPORT by OEKO-TEX®

Products: See attached enclosure
Product Category: 2.10 Printing pastes and inks with and without colourants

The above captioned products can be used for the production of human-ecological optimized textiles & leathers. The combined results of the reports mentioned above reveal that there is no harmful effect on the human and environmental health of the textiles & leathers treated/finished with the certified products. The products fulfill requirements of Annex XVII of REACH (incl. the use of azo colourants, chromium (VI), nickel release, etc.). The evaluation was based on the test methods and requirements of the ECO PASSPORT by OEKO-TEX® that were in force at the time of evaluation.
ZDHC MRSL 2.0 Conformance Level 1 is achieved for certified products without restrictions.

Supporting Documents

- Declaration of conformity in accordance with EN ISO 17050-1 included in ECO PASSPORT by OEKO-TEX® Terms of Use.
- Test Report Number: SH150 194016.1
- RSL Screening Report
- Detailed information about the components and safety data sheets of the certified chemical products.

The certificate SH150 194016 is valid until 31.12.2022

Zürich, 23.12.2021

Matz Bachmann
Managing Director
TESTEX AG

i.V.

Faisal Rizal
Ecology Team Leader
TESTEX AG

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OEKO-TEX®
INSPIRING CONFIDENCE

Enclosure for Certificate No. SH150 194016

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518103 Shenzhen, CHINA

ECO PASSPORT

Certificate Number: SH150 194016

Test Report Number: SH150 194016.1

Certified Products

No.	Product Name	Trade Name	Restriction(s) [1]	ZDHC LEVEL	Product Category
1	INKBANK Textile pigment ink Black BK		none	Level 1	2.10 Printing pastes and inks with and without colourants
2	INKBANK Textile pigment ink Cyan C		none, (see footnote) [2]	Level 1	2.10 Printing pastes and inks with and without colourants
3	INKBANK Textile pigment ink Green G		none, (see footnote) [2]	Level 1	2.10 Printing pastes and inks with and without colourants
4	INKBANK Textile pigment ink Magenta M		none	Level 1	2.10 Printing pastes and inks with and without colourants
5	INKBANK Textile pigment ink Red R		none	Level 1	2.10 Printing pastes and inks with and without colourants
6	INKBANK Textile pigment ink White W		none	Level 1	2.10 Printing pastes and inks with and without colourants

Issue Date 23.12.2021

[1] Restriction(s): The parameter(s) mentioned under Restriction(s) have to be checked on the treated textile for compliance with the regulations of STANDARD 100 by OEKO-TEX® / LEATHER STANDARD by OEKO-TEX®.

[2] Testing for extractable heavy metals required for STANDARD 100 by OEKO-TEX® and LEATHER STANDARD by OEKO-TEX®.

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ECO PASSPORT

Certificate Number: SH150 194016

Test Report Number: SH150 194016.1

Certified Products

No.	Product Name	Trade Name	Restriction(s) [1]	ZDHC LEVEL	Product Category
7	INKBANK Textile pigment ink Yellow Y		none	Level 1	2.10 Printing pastes and inks with and without colourants

Issue Date 23.12.2021

[1] Restriction(s): The parameter(s) mentioned under Restriction(s) have to be checked on the treated textile for compliance with the regulations of STANDARD 100 by OEKO-TEX® / LEATHER STANDARD by OEKO-TEX®.
[2] Testing for extractable heavy metals required for STANDARD 100 by OEKO-TEX® and LEATHER STANDARD by OEKO-TEX®.