

## Safety Data Sheet

# Waterbase Pigment Ink (White)

Version: V2.0.0.1

Report No.: HGNM216GYN

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\*Prepared according to EU regulation No. 2020/878

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

### Product identifier

Product Name	DTF White Ink
Product Model	DTF-White-500, DTF-White-250b
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	For inkjet printing.
Uses advised against	Please consult manufacturer.

### Details of the supplier of the Safety Data Sheet

Name of the company	Distributor: ColDesi / Colman & Company, Inc.,
Address of the company	3634 131st Ave N., Clearwater, FL
Post code	33762
Telephone number	800-891-1094
Fax number	
E-mail address	

### Emergency telephone number

Emergency telephone number	IN EMERGENCY, call CHEMTREC, in US or Canada, call 800-424-9300
Opening hours	Outside of US or Canada, call 703-527-3887

## 2 Hazards identification

### 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.

### GHS Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

### Hazard statements

Hazard statements	Not applicable
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**Precautionary statements**

## ◆ Prevention

<b>Prevention</b>	Not applicable
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## ◆ Response

<b>Response</b>	Not applicable
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## ◆ Storage

<b>Storage</b>	Not applicable
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## ◆ Disposal

<b>Disposal</b>	Not applicable
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**Other hazards**

## ◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
<b>Glycerol</b>	Not PBT/vPvB
<b>Titanium dioxide</b>	Not applicable

## ◆ Results of endocrine disrupting properties assessment

<b>Results of endocrine disrupting properties assessment</b>	Insufficient information, temporarily unable to evaluate
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## ◆ Other

	Not applicable.
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**3 Composition/information on ingredients****Substance/mixture**

	Mixture
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Component	Weight % content (or range)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors
<b>Water</b> CAS: 7732-18-5 EC: 231-791-2 Index No.: -	80	Not Classified	-
<b>Glycerol</b> CAS: 56-81-5 EC: 200-289-5 Index No.: -	15	Not Classified	-
<b>Titanium dioxide</b> CAS: 13463-67-7 EC: 236-675-5 Index No.: 022-006-00-2	5	Not Classified	-

**4 First-aid measures****Description of first aid measures**

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
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<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin contact</b>	No harm in general situation. First aid is not needed.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
<b>Protecting of first-aiders</b>	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.
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### **Indication of any immediate medical attention and special treatment needed**

1	Treat symptomatically.
2	Symptoms may be delayed.

## **5 Fire-fighting measures**

### **Extinguishing media**

<b>Suitable extinguishing media</b>	Misty water , alcohol-resistant foam, dry powder, carbon, dioxide, sand.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may lead to liquid splash and hurt firefighters.

### **Specific hazards arising from the substance or mixture**

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	Not considered a significant fire risk, however containers may burn.

### **Advice for firefighters**

1	As in any fire, 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/vapour/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	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by

	bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

## 7 Handling and storage

### Precautions for safe handling

#### ◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Avoid contact with eyes.
3	Operators must be specially trained to strictly abide by the operating procedures.
4	It is recommended that operators wear self-priming filter dust masks and chemical safety glasses.

#### ◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.
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#### ◆ Measures to prevent aerosol and dust generation

1	Not applicable.
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#### ◆ 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 containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.
5	It is forbidden to use mechanical equipment and tools that are prone to sparks.
6	The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

### Specific end use(s)

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.
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## 8 Exposure controls/personal protection

### Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Glycerol	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100
	Belgium	-	10	-	-
	Australia	-	10	-	-

<b>Titanium dioxide</b>	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	France	-	11	-	-
	Denmark	-	6	-	12
	Australia	-	10	-	-

◆ Biological limit values

<b>Biological limit values</b>	No relevant regulations
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◆ 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)
<b>Water</b>	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
<b>Glycerol</b>	Inhalation	No data available	No data available	56 mg/m <sup>3</sup>	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
<b>Titanium dioxide</b>	Inhalation	No data available	No data available	10 mg/m <sup>3</sup>	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


◆ Predicted No Effect Concentration (PNEC)

<b>Predicted No Effect Concentration (PNEC)</b>	No information available
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### 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

<b>General requirement</b>	
<b>Eye protection</b>	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.

<b>Hand protection</b>	In general situation, hand protection is not needed.
<b>Respiratory protection</b>	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
<b>Skin and body protection</b>	In general situation, skin and body protection are not needed.

## 9 Physical and chemical properties and safety characteristics

### Physical and chemical properties

<b>Physical state</b>	Liquid
<b>Colour</b>	White
<b>Odor</b>	Weak odor
<b>Odor threshold</b>	No information available
<b>pH</b>	7~10
<b>Melting point/freezing point(°C)</b>	-18
<b>Initial boiling point and boiling range(°C)</b>	95~110
<b>Flash point(Closed cup,°C)</b>	> 130
<b>Evaporation rate</b>	No information available
<b>Flammability</b>	Not flammable
<b>Upper/lower explosive limits[%(v/v)]</b>	Upper limit: No information available; Lower limit: No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density(Air = 1)</b>	No information available
<b>Relative density(Water=1)</b>	No information available
<b>Solubility</b>	No information available
<b>n-octanol/water partition coefficient</b>	No information available
<b>Auto-ignition temperature(°C)</b>	No information available
<b>Decomposition temperature(°C)</b>	No information available
<b>Viscosity</b>	3.0-5.0 cP
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	Not oxidizing
<b>Particle characteristics</b>	Not applicable

## 10 Stability and reactivity

### Stability and reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of hazardous reactions</b>	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.
<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible materials</b>	Strong oxides, strong acids, strong bases.

<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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## 11 Toxicological information

### | Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
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
Glycerol	Not Listed	Not Listed
Titanium dioxide	Category 2B	Not Listed

### | Endocrine disrupting properties

<b>Endocrine disrupting properties</b>	No information available
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### | Others

Waterbase Pigment Ink (White)	
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity(additional)</b>	Based on available data, the classification criteria are not met

## 12 Ecological information

### | Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Glycerol	LC <sub>50</sub> : 68100mg/L (96h)(Fish)	No information available	No information available

### | Chronic aquatic toxicity

<b>Chronic aquatic toxicity</b>	No information available
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### | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
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Water	Low	Low
Titanium dioxide	High	High

### Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Water	Low	Log Kow=-1.38
Titanium dioxide	Low	BCF=10

### Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Water	Low	14.3
Titanium dioxide	Low	23.74

### Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Glycerol	Not PBT/vPvB
Titanium dioxide	Not applicable

### Endocrine disrupting properties

Endocrine disrupting properties	No information available
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## 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
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### IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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**15** Regulatory information**International chemical inventory**

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
<b>Water</b>	√	√	√	√	√	√	√	√	√
<b>Glycerol</b>	√	√	√	√	√	√	√	√	√
<b>Titanium dioxide</b>	√	√	√	√	√	√	√	√	√

[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] Korea Existing Chemicals Inventory

[AIIC] Australia. Inventory of Industrial Chemicals (AIIC)

[ENCS] Japan Inventory of Existing &amp; New Chemical Substances

**European chemical inventory**

Component	A	B	C	D	E	F	G
<b>Water</b>	x	x	x	√	x	x	x
<b>Glycerol</b>	x	x	x	√	√	x	x
<b>Titanium dioxide</b>	x	x	x	√	√	√	x

[A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation

[B] Substances requiring authorisation 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**

<b>Creation Date</b>	2021/07/19
<b>Revision Date</b>	2021/07/19
<b>Reason for revision</b>	-

**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/echemportal/substancesearch/index.action>.[4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.[5] NLM: ChemIDplus, website: <http://chem.sis.nlm.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/hazmat/library/erg>.

[8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

## Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P <sub>OW</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

## 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.