

Safety Data Sheet

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

Product name: K-Series DTF White Ink

Product code: DTF-White-500-K

Synonyms: 7494792

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

Identified uses: ink or inkjet chemical

Supplier: ColDesi / Colman & Company, Inc., 3634 131st Ave N., Clearwater, FL 33762

Phone: 800-891-1094

IN EMERGENCY, call CHEMTREC, in US or Canada, call 800-424-9300

Outside of US or Canada, call 703-527-3887

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:

Hazard class	Hazard category	Route of exposure
Carcinogenicity	Category 2	--

GHS-Labeling

Contains:

titanium dioxide (13463-67-7)

Symbol(s):



Signal word: Warning

Hazard statements: Suspected of causing cancer.

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Precautionary statements:

Prevention: Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF exposed or concerned: Get medical advice/ attention.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

HMIS IV Hazard Ratings: Health - 0*, Flammability - 0, Physical Hazard - 0

NFPA Hazard Ratings: Health - 0, Flammability - 0, Instability - 0

NOTE: HMIS IV and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight percent	Components - (CAS-No.)
10 - 15	Glycerol (56-81-5)
1 - 5	titanium dioxide (13463-67-7)

4. First aid measures

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist.

Skin: Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.

Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed: The immediate symptoms and effects of this material are currently unknown.

Indication of any immediate medical attention and special treatment needed:

Treatment: No information available.

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5. Firefighting measures

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment..

Special hazards arising from the substance or mixture

Hazardous Combustion Products: Carbon oxides

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

Environmental precautions: Prevent runoff from entering drains, sewers, or streams.

For Large Spills: Prevent runoff from entering drains, sewers, or streams.

7. Handling and storage

Precautions for safe handling

Personal precautions: No special precautionary measures should be needed under anticipated conditions of use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials.

Ventilation: Match ventilation rates to conditions of use so as not to exceed any applicable exposure limits (see Section 8).

Conditions for safe storage, including any incompatibilities: Keep in a dry, cool and well-ventilated place. Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep away from incompatible substances (see Incompatibility section.)

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8. Exposure controls/personal protection

Occupational exposure controls

Chemical name	Regulatory List	Value Type	Value
Glycerol	OSHA	Time weighted average	5 mg/m3 <i>Form of exposure: mist, respirable fraction</i>
Glycerol		Time weighted average	15 mg/m3 <i>Form of exposure: mist, total particulate</i>
		Time weighted average	10 mg/m3 <i>Form of exposure: total dust</i> <i>Remarks: mist</i>
		Time weighted average	5 ppm <i>Form of exposure: respirable fraction</i> <i>Remarks: mist</i>
titanium dioxide	ACGIH	Time weighted average	10 mg/m3
	OSHA	Time weighted average	15 mg/m3 <i>Form of exposure: total dust</i>
		Time weighted average	10 mg/m3 <i>Form of exposure: total dust</i>
		Short term exposure limit	20 mg/m3 <i>Form of exposure: total dust</i>

Appropriate engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

Eye protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear protective gloves/ protective clothing.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

9. Physical and chemical properties

Physical form: liquid

Colour: white

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Odour: mild

Specific gravity: No data available - testing not performed

Vapour pressure: No data available - testing not performed

Vapour density: No data available - testing not performed

Boiling point/boiling range: 95 - 110 °C (203.0 - 230.0 °F)

Melting point/range: -18 °C (-0.4 °F)

Water solubility: No data available - testing not performed

pH: 7 - 10

Flash point: > 130 °C (266.0 °F)

Evaporation rate: No data available - testing not performed

Flammability (Solid; gas): No data available - testing not performed

Upper explosion limit: No data available - testing not performed

Lower explosion limit: No data available - testing not performed

Partition coefficient: n-octanol/water: No data available - testing not performed

Auto-ignition temperature: No data available - testing not performed

Decomposition temperature: No data available - testing not performed

Viscosity: No data available - testing not performed

Explosive properties: No data available - testing not performed

Oxidizing properties: No data available - testing not performed

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under normal conditions.

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Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: incompatible materials, Heat, flames and sparks..

Incompatible materials: Strong oxidizing agents, Strong acids and strong bases.

Hazardous decomposition products: None under normal conditions of use.

11. Toxicological information

Effects of Exposure

General advice: The toxicological properties of this material have not been fully investigated and its handling and use may present additional hazards.

Contains: titanium dioxide. This substance is classified as a Carcinogen by OSHA.

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: May cause transient irritation.

Skin: Expected to be a low hazard for recommended handling.

Ingestion: Expected to be a low hazard for recommended handling.

Data for Glycerol (CAS 56-81-5):

Acute Toxicity Data:

Oral LD50 (Rat): 12,600 mg/kg

- Inhalation LC50 (Rat): > 2.75 mg/l / 4 hr
- Dermal LD50 (Rabbit): > 10 g/kg
- Skin irritation: slight
- Eye irritation: very slight

Data for titanium dioxide (CAS 13463-67-7):

Acute Toxicity Data:

Oral LD50 (Rat): > 3,200 mg/kg (10% in water)

- Oral LD50 (Mouse): > 3,200 mg/kg (10% in water)
- Inhalation LC50 (Rat): 5.09 mg/l / 4 hr (no deaths occurred)
- Dermal LD50 (Guinea pig): > 1,000 mg/kg
- Skin irritation: slight
- Sensitisation (Guinea pig): none
- Eye irritation: No eye irritation

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Carcinogenicity

American Conference of Governmental Industrial Hygienists (ACGIH):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
International Agency for Research on Cancer (IARC):	Group 2B - Possibly Carcinogenic to Humans: titanium dioxide
U.S. National Toxicology Program (NTP):	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
U.S. Occupational Safety and Health Administration (OSHA):	OSHA Carcinogen or Potential Carcinogen: titanium dioxide
California Prop. 65	WARNING! This product contains a chemical known to the State of California to cause cancer.

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l estimated

Toxicity to daphnia (EC50): > 100 mg/l estimated

Persistence and degradability: Readily biodegradable

This product has not been tested for environmental effects.

Bioaccumulative potential

No data available

Mobility in soil

No information available.

13. Disposal considerations

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Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

Not regulated for all modes of transportation.

15. Regulatory information

Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	All listed
NDSL	None listed
EINECS	All listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	All listed
ECI	All listed
NZIoC	All listed
PICCS	All listed
TCSI	All listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements.

Other regulations

U.S. - CERCLA/SARA - Section 302 (40 CFR § 355
Appendices A and B - The List of Extremely Hazardous
Substances and Their Threshold Planning Quantities):

No components of this product are
subject to the SARA Section 302
(40 CFR 355) reporting
requirements.

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U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):	No components of this product are subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.
U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):	No components of this product are subject to the SARA Section 313 (40 CFR 372.65) reporting requirements.
U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	No components found on the California Specifically Regulated Carcinogens List.
U.S. - California - 8 CCR Section 5203 Carcinogens:	No components found on the California Section 5203 Carcinogens List.
U.S. - California - 8 CCR Section 5209 Carcinogens:	No components found on the California Section 5209 Carcinogens List.
U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:	No components found on the California Director's List of Hazardous Substances.
U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):	Glycerol , titanium dioxide
U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):	Glycerol , titanium dioxide
U.S. - New Jersey - Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):	Glycerol , titanium dioxide
U.S. - Pennsylvania - Part XIII. Worker and Community Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A):	Water , Glycerol , titanium dioxide

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

EWFTF Ink

Contains:

titanium dioxide (13463-67-7)

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Symbol(s):



Signal word: Warning

Hazard statements: Suspected of causing cancer.

Precautionary statements:

Prevention: Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF exposed or concerned: Get medical advice/ attention.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

This Safety Data Sheet has been compiled and is solely intended for this product. The information is based upon the present state of our knowledge.

R-1, S-1, F-0, C-0 CARC