



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

| | |
|-----------------------------|---|
| <u>Product Name</u> | DTF White Ink |
| <u>Product IDN</u> | WB.DTF.5000/ XPD.DTF.500.W |
| <u>Material Uses</u> | Inkjet Printing |
| <u>Manufacturer</u> | STS Inks LLC., 8300 Congress Ave., Boca Raton, FL 33487, USA Phone: 561-999-8818 Fax: 561-999-8828 Emergency: 561-419-7111 www.stsinks.com |
| <u>Date Issued</u> | February 02, 2023 |

2. HAZARD IDENTIFICATION

2.1 Classifications

Classification according to GHS 29CFR 1910.1200

- Acute toxicity[oral] Cat.4: H302.
- Sensitization, Skin. Cat.1: H317
- Serious eye damage/eye irritation. Cat.1: H318
- Reproductive toxicity. Cat. 2: H361
- STOT-RE. [Oral, Kidney] Cat.2: H373

2.2 Label Elements:

Labeling according to GHS

Hazard pictograms



Signal Word: Danger

Hazard Statements:

H302-Harmful if swallowed

H317- May cause an allergic skin reaction

H318- Causes serious eye damage

H361- Suspected of damaging fertility or the unborn child

H373- Causes damage to organs through prolonged or repeated exposure

Precautionary Statements:

PREVENTION:

P203 -Obtain, read and follow all safety instructions before use.

P260- Do not breathe dust/fume/gas/mist/vapors/spray.

P264- Wash hands thoroughly after handling.

P270- Do not eat, drink or smoke when using this product.

P272- Contaminated work clothing should not be allowed out of the workplace.

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

RESPONSE:

P301+P317- IF SWALLOWED: Get emergency medical help.

P302+P352- IF ON SKIN: Wash with plenty of water.

P305+P354+P338- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P319- Get medical help if you feel unwell.

P362+P364- Take off contaminated clothing and wash it before reuse.

STORAGE:

P405- Store locked up.

DISPOSAL:

P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture
Water based inkjet ink (Mixture)

| Ingredients | CAS No | EC No | Percent (%) | Classification GHS (Rev 5) |
|------------------------|--------------|--------------|-------------|---|
| DIW | 7732-18-5 | 231-791-2 | 30-50 | - |
| Diethylene Glycol | 111-46-6 | 203-872-2 | 10-13 | Acute toxicity[oral] Cat.4: H302. STOT-RE [Kidney] Cat.2: H373 |
| Resin | Trade Secret | Trade Secret | 10-20 | - |
| Humectant | Trade Secret | Trade Secret | 6-9 | - |
| Cross-Linker | Trade Secret | Trade Secret | 2-3 | Reproductive tox. Cat. 2: H361 |
| Proprietary Dispersion | Trade Secret | Trade Secret | 15-25 | - |
| Proprietary Additives | Trade Secret | Trade Secret | 1-2 | Serious eye dam. Cat.1: H318 |
| Surfactant | Trade Secret | Trade Secret | 0.1-1 | Acute toxicity, oral. Cat.4: H302 Sensitization, Skin. Cat.1:H317 Serious eye dam. Cat.1: H318 Reproductive tox. Cat. 2: H361 STOT-RE. [Oral] Cat.2: H373 |

This is an aqueous ink formulation.

4. FIRST AID MEASURES

4.1 Description of necessary first-aid measures

Inhalation If inhaled move to fresh air. Respiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.

Ingestion Rinse mouth with water. Give two glasses of water and monitor closely. Call a poison control center, emergency room, or physician before trying to induce vomiting.
Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact In case of contact, immediately flush skin with soap and plenty of water while removing contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.

Eye Contact Do not rub eyes. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

4.2 Most important symptoms or effects, and any symptoms that are acute or delayed

Eye Contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin Contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Over Exposure Signs/Symptoms

Eye Contact: No specific data.

Inhalation: No specific data.

Skin Contact: No specific data.

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water spray.

5.2 Special Hazards arising from the substance or mixture

No information available.

5.3 Advice for Fire-Fighters

Wear self-contained breathing apparatus with independent air supply.

Protective suit.

5.4 Further Information

Use water spray to cool unopened containers.

5.5 NFPA Ratings

Health:1 Flammability: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains, sewers or water courses.

6.3 Methods and materials for containment and cleaning up

Move containers from the spill area. Prevent from entering sewers, water courses, basements, or confined areas. Contain and collect spillage with inert absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local

regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Handling

Wear personal protective equipment such as safety goggles and gloves. Avoid contact with skin and eyes.

7.2 Conditions for safe storage

Keep out of the reach of children. Store at room temperature.

7.3 Specific end uses

Direct to Film printing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls:

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands. Wear impervious gloves when handling this material. We recommend nitrile or neoprene or a combination of nitrile over latex. Skin barrier creams are beneficial. Gloves with long cuffs or separate protective arm covers are also recommended.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye/face Protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------|
| Color | White |
| Odor | Slight |
| Boiling Point/boiling range of ink | No Data Available |
| Melting Point/melting range | No Data Available |
| Freezing Point | No Data Available |
| Specific Gravity | 1.0-1.1 (Water = 1) |
| Vapor Density | No Data Available |
| Vapor Pressure | No Data Available |
| Relative Density | No Data Available |
| Water Solubility | No Data Available |
| Viscosity | Not applicable |
| pH | 7-9 |
| Flash Point | >100 degree Celsius |
| Auto-Ignition Temperature | No Data Available |
| Flammable Limits | Not Determined |
| Volatility (w/w) | No Data Available |
| VOCs | No Data Available |
| Oxidizing Properties | No Data Available |

The physical and chemical data given in Section 9 are typical values for this product and are not intended to be product specifications.

10. STABILITY AND REACTIVITY

10.1 Reactivity No data available

10.2 Chemical Stability This product is stable under recommended conditions of storage and use.

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|--|---|
| 10.3 Possibility of hazardous reactions | No data available |
| 10.4 Conditions to avoid | Not compatible with oxidizing agents |
| 10.5 Incompatible materials | Strong oxidizing agents |
| 10.6 Hazardous decomposition products | Hazardous decomposition products that may be produced if decomposition occurs may include but is not limited to, CO, NOXs and particulate matter. |

11. TOXICOLOGICAL INFORMATION

| | |
|------------------------------------|---|
| 11.1 Routes of Overexposure | Eye, skin, inhalation, and oral ingestion |
| 11.2 Health Hazards: | |
| Acute Health Hazards | Overexposure of the eye surface to ink may generate severe eye irritation. Overexposure of ink contact with the skin may cause irritation and, in some people, swelling and redness. Intentional inhalation to ink vapors may result in respiratory tract irritation. Intentional or accidental oral ingestion may cause an upset stomach. |
| Chronic Health Hazards | No classification regarding to human carcinogenic classification. |
| Mutagenicity | Not a suspected mutagen. |
| Carcinogenicity | No information available |
| 11.3 Toxicity: | |
| Acute Toxicity Data | Harmful if swallowed. May cause gastrointestinal irritation. Overexposure of the skin may cause irritation, redness, burning and skin sensitization. Breathing mist or vapors may cause respiratory tract irritation. |
| Inhalation | Repeated or prolonged contact may cause respiratory tract irritation. |
| Irritating | May cause eye irritation. Repeated or prolonged contact may cause irritation. |
| Sensitization | No sensitizing effects |
| Reproductive Toxicity | Not a suspected reproductive toxin. |

12. ECOLOGICAL INFORMATION

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|--|---|
| 12.1 Toxicity | No data available |
| 12.2 Persistence and Degradability | No data available |
| 12.3 Bioaccumulative Potential | No data available |
| 12.4 Mobility in Soil | No data available |
| 12.5 Results of PBT and vPvB Assessment | PBT: Not applicable vPvB: Not applicable |
| 12.6 Other Adverse Effects | No data available |

13. DISPOSAL CONSIDERATIONS

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|-------------------------------------|---|
| 13.1 Waste Treatment Methods | |
| Product | Treatment, storage, transportation and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Do not flush to surface water or sanitary sewer system. |
| Contaminated Packaging | Dispose of as unused product |

14. TRANSPORTATION INFORMATION

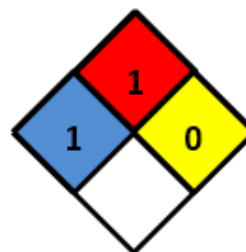
Not classified as a dangerous good under transport regulations

| | |
|--|---|
| 14.1 UN Number | Not Regulated |
| 14.2 UN Proper Shipping Name | Not Regulated |
| 14.3 Transport Hazard Class(es) | Not Regulated |
| 14.4 Packaging Group | Not Regulated |
| 14.5 Environmental Hazards | Not Regulated |
| 14.6 Special Precautions for User | Transport and storage of the product in accordance with general precautions and instructions mentioned in this SDS. |

15. REGULATORY INFORMATION

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|-------------------------------------|--|
| U.S Federal Regulations OSHA | : Not available. : This product is classified non-hazardous : Acute Hazard |
|-------------------------------------|--|

International Regulations : Not available.
Canadian WHMIS : Not available.
Canadian Environmental Protection Act EINECS : Not available.
National Fire Protection Association (United States) Health: 1
 Flammability: 1
 Instability: 0



State Regulations : Not available.
State of California Proposition 65 : **WARNING:** This product can expose you to chemicals including 2-Pentanone, 4-methyl-, which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

The information in this Safety Data Sheet (SDS) is believed to be correct to the best of our knowledge, information and belief at the date of its publication. The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. STS inks does not warrant the completeness or accuracy of the information contained herein.

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