



SAFETY DATA SHEET

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

<u>Product Name</u>	DTF Black Ink
<u>Product IDN</u>	WB.DTF.1000/ XPD.DTF.500.K
<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 Tox. Cat.4 (Oral): H302

Skin Sens. Cat.1: H317

Serious eye dam. Cat.1: H318

Reproductive tox. 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+P265- Wash hands thoroughly after handling. Do not touch eyes.

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	17-20	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	-
Surfactant	Trade Secret	Trade Secret	1-2	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	Black
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.
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 data is available on the product itself.

Reproductive Toxicity No data is available on the product itself.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

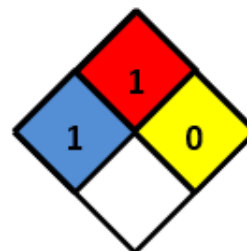
14.1 UN Number	Not Regulated
14.2 UN Proper Shipping Name	Not Regulated
14.3 Transport Hazard Class(es)	Not Regulated
14.4 Packaging Group	Not Regulated
14.5 Environmental Hazards	Not Regulated
14.6 Special Precautions for User	Transport and storage of the product in accordance with general precautions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

15. REGULATORY INFORMATION

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 : Not available.
Protection Act EINECS

National Fire Protection Health: 1
Association (United States) 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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