



SAFETY DATA SHEET

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

Product Name : Direct to Film/DTF Black Ink

Product # : STS.DTF.1L.K / STS.DTF.220.K / XPD.DTF.500.K

Material Uses : Ink for use in an ink jet process.

Manufacturer or Importer : MUTOH AUSTRALIA PTY. LTD.
Address: Unit 19/76 Reserve Road, Artarmon, NSW 2064, Australia
Phone: +61 2 9437 1366
Email: admin@mutoh-au.com

Emergency phone number : Emergency phone number (business hours): +61 2 9437 1366

Date : 22/03/21

2. HAZARD IDENTIFICATION

2.1 Classifications of the substance or mixture:

Classification according to GHS 29CFR 1910.1200

Acute Tox.4 (Oral) H302

Not classified as hazardous

2.2 Label Elements:

Labeling according to GHS

Hazard pictograms:



Signal Word:

Warning

Hazard Statements:H302- Harmful if swallowed

Precautionary Statements:

P264 - Wash hands thoroughly after handling.

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/container to an approved waste disposal plant

2.3 Other Hazards

This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Mixtures

Description of the mixture: Water based inkjet ink (Mixture)

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification GHS(Rev 5)
Diethylene glycol	111-46-6	203-872-2	1-20	Xn; R22	Acute Tox. 4 (H302)
Carbon Black	1333-86-4	215-609-9	1-5	Not classified	Not classified

4. FIRST AID MEASURES

4.1 Description

- Inhalation** : If inhaled move to fresh air. If respiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.
- Ingestion** : 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 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 and Effects, Both Acute and Delayed Potential Acute Health Effects

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

Use 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

Use personal protective equipment. Gloves and eye/face protection.

6.2 Environmental Precautions

Avoid releasing to the environment. Do not allow to enter drains, sewers or water courses.

6.3 Methods for Cleaning Up

Small spillage: 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.

Large Spillage: 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.

7 HANDLING AND STORAGE

Handling : Wear personal protective equipment such as safety goggles and gloves. Avoid contact with skin and eyes,
Storage : Keep out of the reach of children. Store at room temperature.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Occupational Exposure Limits:

Chemical Name	ACGIH TWA	NIOSH TWA	OSHA PEL
Diethylene Glycol	10 mg/m ³	-	-
Carbon Black 7	3 mg/m ³ inhalable fraction	-	3.5 mg/m ³

8.2 Exposure Controls

Respiratory Protection : Avoid breathing vapor or mist. When established airborne limits are surpassed wear NIOSH/MSHA approved equipment. Determine the appropriate type of equipment for the specific application by consulting the respirator manufacturer. Observe limitations specified by NIOSH/MSHA or the manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus or a supplied air respirator. Respiratory protection programs must be in compliance with 29CFR 1910.134.

Skin Protection : 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.

Eye Protection : Wear a full face shield, chemical splash goggles or safety glasses with side shields when handling any chemical.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Color	: Black
Odor	: Slight
Boiling Point	: Not Determined
Melting Point	: Not Determined
Freezing Point	: No Data Available
Specific Gravity	: 1.0-1.1 (Water = 1)
Vapor Density	: No Data Available.
Vapor Pressure	: Not Determined

Evaporation Rate (Butyl Acetate = 1)	: No Data Available
Relative Density	: No Data Available
Solubility (Water)	: No data Available.
pH	: 7-9
Flash Point	: >100 degree Celsius
Auto-Ignition Temperature	: Not Determined
Flammable Limits	: Not Determined
Volatility (w/w)	: No Data Available
VOC Volatility (w/w)	: No Data Available
Less Exempt Volatile	

10 STABILITY AND REACTIVITY

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

Conditions to Avoid : No information available.

Incompatible materials : Strong oxidizing agents.

Hazardous Decomposition Products : Subjecting this material to conditions that will cause decomposition may cause hazardous or toxic substances to be emitted which may include but is not limited to, CO, NOXs and particulate matter.

Hazardous Polymerization : Will not occur.

11 TOXICOLOGICAL INFORMATION

Serious Eye Damage/Eye Irritation : May cause eye irritation.

Skin Irritant : Repeated or prolonged contact may cause irritation.

Ingestion : Harmful if swallowed. May cause gastrointestinal irritation.

Inhalation : Repeated or prolonged contact may cause respiratory tract irritation.

Chronic/Carcinogenicity No classification regarding to human carcinogenic classification.

NTP : No classification(s).

OSHA : No classification(s).

Teratology	: Not a suspected teratogen.
Reproduction	: Not a suspected reproductive toxin.
Mutagenicity	: Not a suspected mutagen.
Acute Toxicity	: Overexposure may cause mild irritation of eyes. Overexposure of the skin may cause irritation, redness, burning and skin sensitization. Breathing mist or vapors may cause respiratory tract irritation.
<u>Skin and Eye</u>	
Skin corrosion/irritation Evaluation	: : Slightly irritating (P.I.I = 2.0) (rabbit)
STOT- single Exposure	: No data available.
STOT- repeated Exposure	: No data available.
Routes of Exposure	: Skin absorption, breathing, ingestion, eye contact.

12 ECOLOGICAL INFORMATION

Environmental Fate	: No information available.
Biodegradation	
Bioaccumulation	: Log Pow: -1.98(diethylene Glycol)
Mobility	: No information available.
Ecotoxicity	: Fish: LC50: 75200 mg/L Duration: 96 hrs Method: 92/69/ EEC C.1, OECD-Guideline No. 203

13 DISPOSAL CONSIDERATIONS

Waste Disposal	: Waste must be disposed of according to the applicable state, federal, and local regulations.
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14 TRANSPORTATION INFORMATION

Not regulated under United States DOT Domestic Surface, USA, ICAO/IATA AIR, IMO/IMDG OCEAN, ADR, or RID

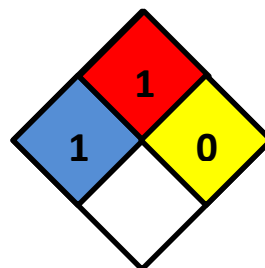
Special precautions : Not listed
UN Number : Not applicable
Class : Not applicable
Proper shipping name : Not applicable
Packing group : Not applicable
Marine pollutant : None noted

15 REGULATORY INFORMATION

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

International Regulations : Not available.
Canadian WHMIS : Not available.
Canadian Environmental Protection Act : Not available.
EINECS

National Fire Protection Association (United States) : Health: 1
: Flammability: 1
: Instability: 0



State Regulations : Not available.
State of California Proposition 65 : This product does not contain proposition 65 listed chemicals that would mandate consumer notification labeling.

16 OTHER INFORMATION

Date of Issue : March 22nd, 2021
Version : 1.01

Notice to the Reader:

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. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. 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. A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if or where precautions-in addition to those described

herein- are required. Any health hazard and safety information contained herein should be passed on to your customers or employees. The manufacturer must rely on the user to utilize the information provided to develop guidelines and employee instructional programs for safe use.

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared to assist those working with or handling this product. This information is furnished without any warranty, representation or license of any kind. To the best of the manufacturer's knowledge, the information presented by this document is believed to be accurate. The manufacturer does not assume any legal responsibility for the use of the same. Customers are encouraged to conduct their own tests before using any product. Read the label instructions.