



SAFETY DATA SHEET

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

<u>Product Name</u>	Direct to Film/DTF Nozzle Busting Solution
<u>Product IDN</u>	WB.DTF.8001.500ML
<u>Material Uses</u>	Inkjet Printing
<u>Manufacturer</u>	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 (business hours): +61 2 9437 1366
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2. HAZARD IDENTIFICATION

2.1 Classifications

Classification according to GHS 29CFR 1910.1200

Sensitization, Skin: H317

Serious eye damage/eye irritation: H318

2.2 Label Elements:

Labeling according to GHS

Hazard pictograms



Signal Word: Danger

Hazard Statements:

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

Precautionary Statements:**PREVENTION:**

P261- Avoid breathing dust/fume/gas/mist/vapors/spray.

P264+P265- Wash hands thoroughly after handling. Do not touch eyes.

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:

P302+352- 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.

P332+P317- If skin irritation occurs: Get medical help.

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

STORAGE:**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	EU Preregistration Number	Percent (%)	Classification GHS (Rev 5)

Surfactant	Trade Secret	Trade Secret	N/A at the moment	10-13	Serious eye damage/eye irritation: H318 Causes mild skin irritation: H316
Dispersant	Trade Secret	Trade Secret	N/A at the moment	1-2	Sensitization, Skin: H317

This is an aqueous ink formulation.

4. FIRST AID MEASURES

4.1 Description

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 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

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	Clear
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	No Data Available
Vapor Density	No Data Available
Vapor Pressure	No Data Available
Relative Density	No Data Available
Water Solubility	No Data Available
Viscosity	No Data Available
pH	No Data Available
Flash Point	No Data Available
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 of 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

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.

International Regulations

: This product is classified as an Acute Hazard

Canadian WHMIS

: Not available.

Canadian**Environmental**

: Not available.

Protection Act EINECS

: Not available.

National Fire Protection Association (United States)

Health: 2

Flammability: 0

Reactivity: 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

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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