

Fluorescent Yellow T SDS No. 037-W381084 First issue: 2015/12/21

Revised: 2019/12/21

# Safety Data Sheets

#### 1. Identification

Product Name : Dye Sublimation Ink Sb410 Fluorescent Yellow T

Order No. : SB410-FYT-2L

General Use : Ink jet printing ink
Product Description : Dye Sublimation Ink

SDS Number : 037-W381084

Manufacture

Company Name : Mimaki Engineering Co., Ltd.

Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

Telephone No. : +81-268-64-2413

Importer / Distributor Established in USA

Company Name : MIMAKI USA, INC.

Address : 150 Satellite Boulevard NE, suite A, Suwanee, Georgia 30024,

U.S.A.

Telephone No. : +1-678-730-0170

Emergency Telephone No. : +1 866 928 0789 (within United States only, Toll free)

+1 215 207 0061

## 2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 2A

Sensitization – Skin : Category 1

Toxic to Reproduction : Category 2

Specific Target Organ Toxicity : Category 1(kidneys and liver)

(Repeated Exposure)

The above list does not include category being non-classifiable or not-applicable.

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# [GHS Label Elements]





Signal Word Danger

#### **Hazard Statements**

H315 Cause skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure (kidney, liver)

## **Precautionary Statements**

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's Operation Manual before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe gas/mist/vapors.

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.

[Response]

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

[Storage]

P405 Store locked up.

[Disposal]

P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

### NFPA Rating (scale 0-4)

Health = 2

Flammability = 1

Instability = 0

Special =





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## CANADIAN WHMIS SYMBOLS

D2A, D2B



# 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Diethylene glycol	10-30	111-46-6
2	Glycerin	1-15	56-81-5
3	Dye	1-10	Trade Secret
4	Water	50-65	7732-18-5
5	Other	<10	Trade Secret

#### 4. First Aid Measures

Inhalation : Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or doctor/physician.

Eye Contact : Flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention.

Skin Contact : Wash with plenty of soap and water. Take off contaminated clothing

and wash before re-use. If skin irritation or rash occurs: Get medical

advice/attention.

Ingestion : If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute : allergic skin reaction, skin irritation, eye irritation

Delayed : allergic skin reaction, kidney damage, liver damage, reproductive

: Treat symptomatically and supportively.

effects

Indication of Immediate

Medical Attention and

Special Treatment

Needed, If Needed



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### 5. Fire Fighting Measures

Flammable Properties : Flash point Not flammable

Extinguishing Media : carbon dioxide, regular dry chemical, water spray, alcohol resistant

foam

Unsuitable Extinguishing : Do not use high-pressure water streams.

Media

Special Hazards Arising : Negligible fire hazard.

from the Chemical

Hazardous Combustion : oxides of carbon, acrolein, oxides of sulfur

**Products** 

Fire Fighting : Move container from fire area if it can be done without risk. Do not

Measures scatter spilled material with high-pressure water streams. Cool

containers with water spray until well after the fire is out. Stay away from the ends of tanks. Avoid inhalation of material or

combustion by-products.

Special Protective : Wear full protective fire fighting gear including self contained

Equipment and breathing apparatus (SCBA) for protection against possible

Precautions for exposure.

Firefighters

#### 6. Accidental Release Measures

Personal Precautions, : Wear personal protective clothing and equipment, see Section 8.

Protective Equipment Avoid release to the environment.

and Emergency

Procedures

Methods and Materials

for Containment and

Cleaning Up

Eliminate all ignition sources if safe to do so. Stop leak if possible

without personal risk. Reduce vapors with water spray.

Small spills: Absorb with sand or other non-combustible material.

Collect spilled material in appropriate container for disposal.

Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low

areas.



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### 7. Handling and Storage

Precautions for Safe

Handling

Obtain SDS (Safety Data Sheet) and printer's Operation Manual before use. Do not handle until all safety precautions have been read

and understood. Do not breathe gas/mist/vapors. Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using this

product. Wear protective gloves/protective clothing/eye

protection/face protection. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the

workplace.

Conditions for Safe

Storage, including any

Incompatibilities

: Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep separated from incompatible substances.

### 8. Exposure Controls / Personal Protection

Exposure Limit Values : Glycerin (56-81-5)

OSHA: 15 mg/m<sup>3</sup> TWA (mist, total particulate);

5 mg/m<sup>3</sup> TWA (mist, respirable fraction)

Mexico 10 mg/m<sup>3</sup> TWA LMPE-PPT (mist)

Component Biological

Limit Values

: There are no biological limit values for the component(s) of this

product.

**Exposure Controls** 

Occupational Exposure Controls

Appropriate
Engineering Controls

: Provide local exhaust or process enclosure ventilation system. Ensure

compliance with applicable exposure limits.

Personal Protection

Respiratory

: Consult with a health and safety professional for specific respirators

Protection appropriate for your use.





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**Hand Protection** 

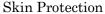
: Wear appropriate chemical resistant gloves.



Eye Protection

: Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the

immediate work area.



: Wear appropriate chemical resistant clothing.



## 9. Physical and Chemical Properties

Appearance - Physical State : Liquid

- Color : Yellow

Odor : unique odor

pH : 7-9

Boiling Point / Boiling Range : Not available Melting Point / Melting Range : Not available Decomposition Temperature : Not available Flash Point : Not flammable Auto ignition temperature : Not available : Not available Flammability (Solid, Gas) : Not available **Explosive Properties** : Not available Oxidizing Properties Upper / Lower Flammability or : Not available

**Explosive Limits** 

Vapor Pressure

Specific Gravity  $: 1.0 \text{-} 1.2 \text{ (25}^{\circ} \text{ C)}$ Solubility : Not available

Water Solubility : Soluble

Partition Coefficient (n-octanol / Water) : Not available

Viscosity : 4-6 mPa·s (25 °C)



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Vapor Density : Not available Evaporation Rate : Not available

### 10. Stability and Reactivity

Reactivity : No reactivity hazard is expected.

Chemical Stability : Stable under normal conditions of use.

Possibility of Hazardous : Will not polymerize.

Reactions

Conditions to Avoid : Avoid flames, sparks, and other sources of ignition. Avoid contact

with incompatible materials.

Incompatible Materials : acids, bases, oxidizing materials, metal oxides, peroxides, reducing

agents, combustible materials, halocarbons, metals, metal salts

Hazardous : Combustion: oxides of carbon, acrolein, oxides of sulfur

Decomposition

# 11. Toxicological Information

Acute Toxicity : The component(s) of this material have been reviewed in various

Component Analysis -

sources and the following selected endpoints are published:

LD50/LC50

Diethylene glycol (111-46-6)

Oral LD50 Rat 12565mg/kg; Dermal LD50 Rabbit 11890 mg/kg

Glycerin (56-81-5)

Oral LD50 Rat 12600 mg/kg; Dermal LD50 Rabbit >10 g/kg;

Inhalation LC50 Rat >570 mg/m<sup>3</sup> 1 h

Information on Likely Routes of Exposure

Inhalation : irritation, difficulty breathing, headache, nausea

Ingestion : fever, nausea, vomiting, diarrhea, headache, dizziness, sleep

disturbances, blood disorders, kidney damage, paralysis, reproductive effects, convulsions, skin disorders, stomach pain, drowsiness, loss of

coordination, unconsciousness

Skin Contact : allergic reactions, irritation, nausea, headache, drowsiness, dizziness,

loss of coordination

Eye Contact : irritation

Immediate Effects : allergic skin reaction, skin irritation, eye irritation



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**Delayed Effects** : liver damage, kidney damage, allergic skin reaction, reproductive

effects

**Medical Conditions** : No information available for the product.

Aggravated by Exposure

Irritation/Corrosivity : skin irritation, eye irritation

Data

Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : May cause an allergic skin reaction.

Germ Cell Mutagenicity : No information available for the product.

: Component Carcinogenicity Carcinogenicity

No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for

the component(s) of this product.

: Suspected of damaging fertility or the unborn child. Reproductive Toxicity

Specific Target Organ

: No target organs identified.

Toxicity - Single

Exposure

Specific Target Organ

Toxicity - Repeated

Exposure

**Aspiration Hazard** : Not expected to be an aspiration hazard.

: liver, kidneys

### 12. Ecological Information

Handling is noted because it might influence the environment when

leaking and abandoning it.

Especially, note that the product doesn't flow directly to ground, the

river, and the drain ditch.

: Diethylene glycol (111-46-6) Component Analysis -

Fish: 96 Hr LC50 Pimephales promelas: 75200 mg/L [flow-through]; **Aquatic Toxicity** 

Invertebrate: 48 Hr EC50 Daphnia magna: 84000 mg/L

Glycerin (56-81-5)

Fish: 96 Hr LC50 Oncorhynchus mykiss: 51 - 57 mL/L [static]

Persistence and : No information available for the product.

Degradability

Bioaccumulation : No information available for the product.



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Mobility : No information available for the product.

Other Toxicity : No additional information is available.

### 13. Disposal Considerations

: Comply with all USA, national and local regulations.

Do not dump this product into sewers, on the ground or into any body

of water.

Disposal Methods : Dispose in accordance with all applicable regulations.

Component Waste : The U.S. EPA has not published waste numbers for this product's

Numbers components.

Disposal of : Empty containers may contain product residue. Dispose in

Contaminated accordance with all applicable regulations.

Packaging

### 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

US DOT Information : Not regulated as a hazardous material for transport.

TDG Information
 IATA Information
 INot regulated as dangerous goods for transport.
 ICAO Information
 Not regulated as dangerous goods for transport.
 ICAO Information

IMDG Information : Not regulated as dangerous goods for transport.

Marine Pollutants :

(IMDG)

: Not regulated as dangerous goods for transport.

International Bulk : This

: This material does not contain any chemicals required by the IBC

Chemical Code Code to be identified as dangerous chemicals in bulk.

## 15. Regulatory Information

U.S. Federal : None of this products components are listed under SARA Sections
Regulations 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR

302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR

302.4), TSCA 12(b), or require an OSHA process safety plan.



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SARA Title III : Acute Health: Yes Section 311/312 : Chronic Health: Yes

Fire: No

Pressure: No Reactive: No

U.S. State Regulations : The following components appear on one or more of the following

state hazardous substances lists

Component	CA	MA	MN	NJ	PA
Diethylene glycol (CAS No. 111-46-6)	No	No	Yes	No	Yes
Glycerin (CAS No. 56-81-5)	No	Yes	Yes	Yes	Yes

: Not regulated under California Proposition 65

Canada WHMIS : D2A, D2B

CLASSIFICATION

Canadian WHMIS : None of the product component(s) are listed on the Ingredients

Ingredient Disclosure Disclosure List (IDL).

List (IDL)

Chemical Inventory : Component Analysis - Inventory

Listings

Component	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Diethylene glycol (CAS No. 111-46-6)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Glycerin (CAS No. 56-81-5)	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

### 16. Other Information

#### Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code -



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International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; LOLI - List Of LIsts<sup>TM</sup> - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP - National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

### Other Information

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