

Yellow 'I

SDS No. 037-W380421 First issue: 2015/04/13 Revised: 2017/04/24

# Safety Data Sheets

#### 1. Identification

Product Name : Dye Sublimation Ink Sb410 Yellow T

Order No. : SB410-YT-2L

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

SDS Number : 037-W380421

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, suite A, Suwanee, Georgia 30024, U.S.A.

Telephone No. : +1-678-730-0100 Emergency Telephone No. : +81-268-64-2281

### 2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Sensitization – Skin : Category 1

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

[GHS Label Elements]

Symbol



Signal Word Warning

Hazard Statements

H317 May cause an allergic skin reaction



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**Precautionary Statements** 

[Prevention]

P261 Avoid breathing gas/mist/vapors.

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.

P321 Specific treatment (see 4-Response on our website/SDS URL: www.mimaki.co.jp/sds).

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

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

[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 =



### CANADIAN WHMIS SYMBOLS

D2B



### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Propylene glycol	20-30	57-55-6
2	Glycerin	5-15	56-81-5
3	Dye	1-10	Trade Secret
4	Water	50-60	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.



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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 immediate medical 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, mild skin irritation

Delayed : allergic skin reaction

Indication of Immediate

: Treat symptomatically and supportively.

Medical Attention and

Special Treatment Needed. If Needed

### 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 scatter spilled material with 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



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#### Accidental Release Measures

Personal Precautions,

Protective Equipment

and Emergency

Procedures

Methods and Materials

for Containment and

Cleaning Up

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

Avoid release to the environment.

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.

### Handling and Storage

Precautions for Safe

Handling

: Avoid breathing gas, mist or vapors. Avoid contact with eyes, skin and

clothing. Do not eat, drink, or smoke when using this product. Wear

protective gloves and eye/face protection. Wash 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.

### 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.



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### **Exposure Controls**

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system. Ensure

Engineering Controls compliance with applicable exposure limits.

Personal Protection

Respiratory : Consult with a health and safety professional for specific respirators

Protection appropriate for your use.



**Hand Protection** 

: Wear appropriate chemical resistant gloves.



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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.



Skin Protection

: 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

Flammability (Solid, Gas) : Not available



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Explosive Properties : Not available
Oxidizing Properties : Not available
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)

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 Propylene glycol (57-55-6)

Oral LD50 Rat 20 g/kg; Dermal LD50 Rabbit 20800 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



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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, mild skin irritation

Delayed Effects : allergic skin reaction

Medical Conditions : No information available for the product.

Aggravated by Exposure

Irritation/Corrosivity : mild skin 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.

Carcinogenicity : Component Carcinogenicity

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

the component(s) of this product.

Reproductive Toxicity : No information available for the product.

Specific Target Organ : No target organs identified.

Toxicity - Single

Exposure

Specific Target Organ : No target organs identified.

Toxicity - Repeated

Exposure

Aspiration Hazard : Not expected to be an aspiration hazard.



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### 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.

Component Analysis -

: Propylene glycol (57-55-6)

Aquatic Toxicity

Fish: 96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr

LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static]; 96 Hr LC50

Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales

promelas: 710 mg/L

Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L Invertebrate: 48 Hr EC50 Daphnia magna: >1000 mg/L [Static]

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. Mobility : No information available for the product. : No additional information is available. Other Toxicity

### 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

components.

Disposal of

Numbers

: Empty containers may contain product residue. Dispose in

Contaminated

accordance with all applicable regulations.

Packaging



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### 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 : Not regulated as dangerous goods for transport.

 ${\bf IATA\ Information} \qquad \qquad {\bf :\ Not\ regulated\ as\ dangerous\ goods\ for\ transport.}$ 

ICAO Information : Not regulated as dangerous goods for transport.

IMDG Information : Not regulated as dangerous goods for transport.

Marine Pollutants : Not regulated as dangerous goods for transport.

(IMDG)

International Bulk : 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

370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR

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

SARA Title III : Acute Health: Yes

Section 311/312 Chronic Health: No

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
Propylene glycol (CAS No. 57-55-6)	No	No	Yes	Yes	Yes
Glycerin (CAS No. 56-81-5)	No	Yes	Yes	Yes	Yes

: Not regulated under California Proposition 65

Canada WHMIS : D2B.

CLASSIFICATION



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Canadian WHMIS : Components of this material have been checked against the

Ingredient Disclosure Canadian WHMIS Ingredients Disclosure List. The List is composed of

List (IDL) chemicals which must be identified on MSDSs if they are included in products which fall under WHMIS criteria specified in the Controlled

Products Regulations and present above the threshold limits listed on

the IDL.

Propylene glycol (57-55-6) 1 %

Chemical Inventory : Component Analysis - Inventory

Listings

Component	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Propylene glycol (CAS No. 57-55-6)	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 - International Bulk Chemical Code; Kow - Octanol/water partition coefficient; 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;

#### Other Information

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.



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