

SDS No. 037- W451845 First issue: 2017/01/19

Revised: 2019/09/26

# Safety Data Sheets

#### Identification

**Product Name** : Acid Dye Ink Ac400 Blue

Order No. : AC400-BL-2L

General Use : Ink jet printing ink

Product Description : Acid Dye Ink SDS Number : 037-W451845

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

[HCS Classification]

Physical Hazards

Flammable Liquids : Category Not classified

Health Hazards

Sensitization – Skin : Category 1A

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

#### [HCS 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.

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

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

## [Storage]

None.

#### [Disposal]

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

NFPA Rating (scale 0-4)

Health = 1

Flammability = 1

Instability = 0

Special =



#### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Water	balance	7732-18-5
2	Glycols	30-50	Trade Secret
3	Pigment	1-5	Trade Secret
4	Other additives	<3	Trade Secret
5	Preservative	< 0.5	Mixture

Component Related Regulatory Information.

The chemical identity and/or percentage of composition is being withheld as a trade secret.

## First Aid Measures

Inhalation

: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.



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Eye Contact : Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

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

and wash before reuse. If skin irritation or rash occurs: Get medical

advice/attention.

Ingestion : Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

Most Important Symptoms/Effects

: mild skin irritation, allergic skin reaction. Acute

: allergic skin reaction. Delayed

Indication of Immediate

: Treat symptomatically and supportively.

Medical Attention and

Special Treatment Needed, If Needed

# Fire Fighting Measures

: Not flammable. Flammable Properties

Extinguishing Media : Regular dry chemical, carbon dioxide, water spray, foam.

Unsuitable Extinguishing : Do not scatter spilled material with high-pressure water streams.

Media

Special Hazards Arising : Negligible fire hazard during intended use. Irritating and/or toxic

from the Chemical

fumes and gases may be emitted upon the product's decomposition.

**Hazardous Combustion** : Oxides of carbon.

**Products** 

Fire Fighting Measures : Move material from fire area if it can be done without risk. Use

> extinguishing agents appropriate for surrounding fire. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low

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

Equipment and breathing apparatus (SCBA) for protection against possible exposure.

Precautions for 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 heat, flames, sparks and other sources of ignition. 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.

Environmental

Precautions

: Avoid release to the environment.

# Handling and Storage

Precautions for Safe

Handling

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

clothing. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Contaminated work clothing must not be

allowed out of the workplace.

Conditions for Safe

Storage, including any

Incompatibilities

: None needed according to classification criteria.

Further information on storage conditions: Store and handle in accordance with all current regulations and standards. Store in a

well-ventilated area. Keep container tightly closed. Keep cool. Keep

separated from incompatible substances.

**Incompatible Materials** : oxidizing materials, acids, combustible materials, bases, reducing

agents, metals, metal salts, halocarbons.

## Exposure Controls / Personal Protection

**Exposure Limit Values** 

The following constituents are the only constituents of the product

which have a PEL, TLV or other recommended exposure limit. At this

time, the other constituents have no known exposure limits.



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ACGIH - Threshold : There are no biological limit values for any of this product's

Limit Values - Biological components.

Exposure Indices (BEI)

**Exposure Controls** 

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system.

**Engineering Controls** 

Individual Protection Measures, such as Personal Protective Equipment

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

appropriate for your use.

Glove : Wear appropriate chemical resistant gloves.

Recommendations



Eye /Face : Wear splash resistant safety goggles. Provide an emergency eye

Protection wash fountain and quick drench shower in the immediate work area.



Skin Protection : Wear appropriate chemical resistant clothing.



#### Physical and Chemical Properties

- Physical State : liquid Appearance

> - Color : blue

Odor : faint odor : 7 - 10 (20 °C) pН Boiling Point / Boiling Range : Not available

Melting Point / Melting Range : Not available



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

**Explosive Limits** 

Vapor Pressure : Not available

Specific Gravity : 1 - 1.1

Solubility : Not available

Water Solubility : soluble

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

Viscosity  $: 3 - 10 \text{ mPa} \cdot \text{s} (20 \text{ °C})$ 

Vapor Density : Not available Evaporation Rate : Not available

# 10. Stability and Reactivity

Reactivity : No reactivity hazard is expected.

Chemical Stability : Stable at normal temperatures and pressure.

Possibility of Hazardous : Will not polymerize.

Reactions

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

rupture or explode if exposed to heat. Avoid contact with incompatible

materials.

Incompatible Materials : oxidizing materials, acids, combustible materials, bases, reducing

agents, metals, metal salts, halocarbons.

Hazardous : Oxides of carbon.

Decomposition

## 11. Toxicological Information

Information on Likely Routes of Exposure

Inhalation : irritation.

Ingestion : irritation.



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Skin Contact : mild skin irritation, allergic skin reaction

Eye Contact : mild eye irritation

Acute and Chronic Toxicity

Component Analysis - : **Product Toxicity Data (**Acute Toxicity Estimate)

LD50/LC50 Dermal > 2000 mg/kg

Inhalation - Vapor > 20 mg/L

Oral > 2000 mg/kg

Immediate Effects : mild skin irritation, allergic skin reaction.

Delayed Effects : allergic skin reaction.

Irritation/Corrosivity : mild skin irritation.

Data

Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : Available data characterizes components of this product as dermal

sensitization hazards.

Germ Cell : No information available for the product.

Mutagenicity

Carcinogenicity : No information available for the product.

Component : None of this product's components are listed by ACGIH, IARC, NTP,

Carcinogenicity DFG or OSHA.

Tumorigenic Data : No information available for the 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.

Medical Conditions : skin disorders and allergies.

Aggravated by Exposure

#### 12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it.



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Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

Component Analysis - : No LOLI ecotoxicity data are available for this product's

Aquatic Toxicity components.

Persistence and : No information available for the product.

Degradability

Bioaccumulation : No information available for the product.

Mobility : No information available for the product.

## 13. Disposal Considerations

Disposal Methods : Comply with all USA, national and local regulations.

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

of water.

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 : No Classification assigned.

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 313 (40 CFR 372.65),

CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process

safety plan.

SARA Section 311/312 : Resp

: Respiratory/Skin Sensitization.

(40 CFR 370 Subparts B

and C) reporting



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categories

U.S. State Regulations : None of this product's components are listed on the state lists from

CA, MA, MN, NJ or PA

: Not listed under California Proposition 65. California Proposition

65

Canada Regulations : Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are

present below the threshold limit listed on the IDL.

## Component Analysis – Inventory

# Glycols (Trade Secret)

US	CA	EU	AU	РН	JP -	JP -	KR KECI -	KR KECI -	KR - REACH	CN	NZ	MX	TW
					ENCS	ISHL	Annex 1	Annex 2	CCA				
Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes

## Pigment (Trade Secret)

	US	CA	EU	AU	РН	JP -	JP -	KR KECI -	KR KECI -	KR - REACH	CN	NZ	MX	TW
						ENCS	ISHL	Annex 1	Annex 2	CCA				
ſ	Yes	DSL	EIN	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes

#### Other additives (Trade Secret)

US	CA	EU	AU	PH	JP -	JP -	KR KECI -	KR KECI -	KR - REACH	CN	NZ	MX	TW
					ENCS	ISHL	Annex 1	Annex 2	CCA				
Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes

## Preservative (Mixture)

US	CA	EU	AU	PH	JP ·	JP -	KR KECI -	KR KECI -	KR - REACH	CN	NZ	MX	TW
					ENCS	ISHL	Annex 1	Annex 2	CCA				
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

#### 16. Other Information

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS -



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Chemical Abstracts Service; CERCLA · Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU -European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; ICAO - International Civil Aviation Organization; IDL -Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG -International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow -Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts<sup>TM</sup> - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the  $Workplace; MEL - Maximum \ Exposure \ Limits; MX - Mexico; \ NDSL - Non-Domestic \ Substance$ List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID -European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL -Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW -Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada).

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