

SDS No. 037- W451846 First issue: 2017/01/19

Revised: 2019/09/26

Safety Data Sheets

Identification

Product Name : Acid Dye Ink Ac400 Red

Order No. : AC400-R-2L

General Use : Ink jet printing ink

Product Description : Acid Dye Ink SDS Number : 037-W451846

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	1-10	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

from the Chemical

Products

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

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

Hazardous Combustion : Oxides of carbon.

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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6. 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.

7. 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.

8. 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.

Vapor Respirator

Glove : Wear appropriate chemical resistant gloves.

Recommendations

Gloves

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

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

Safety Glasses

Skin Protection : Wear appropriate chemical resistant clothing.



9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : red

Odor : faint odor
pH : 7 - 10 (20 °C)
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 : 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

California Proposition : Not listed under California Proposition 65.

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	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

Pigment (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	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	РН	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 LIstsTM - 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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