

SDS No. 037-W310797 First issue: 2013/01/15

Revised: 2019/12/10

Safety Data Sheets

Identification

Product Name : Reactive Dye Ink Rc300 Light Black

Order No. : RC300-LK-BB / RC300-LK-2L

Ink Ver. : 1

General Use : Ink jet printing ink : Ink jet printing ink **Product Description**

: 037-W310797 SDS Number

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

Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Eye Damage / Irritation : Category 2 Sensitization - Skin : Category 1

Specific Target Organ Toxicity : Category 1 (central nervous system, kidneys, heart,

(Single Exposure) respiratory system)

Specific Target Organ Toxicity : Category 1 (central nervous system, heart,

(Repeated Exposure) respiratory system)

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

[GHS Label Elements]



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Signal Word Danger

Hazard Statements

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H370 Causes damage to central nervous system, kidneys, heart, and respiratory system.

H372 Causes damage to central nervous system, heart, and respiratory system through prolonged or repeated exposure

Precautionary Statements

[Prevention]

P260 Do not breathe gas/mist.

P264 Wash hands and eyes 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+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

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).

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.		
1	Water	40-60	7732-18-5		
2	1,2-Propylene glycol	20-40	57-55-6		
3	Ethylene glycol	<5	107-21-1		
4	Glycerols	5-15	Trade Secret		
5	Reactive Dye	<5	Trade Secret		
6	Additives	<5	Trade Secret		



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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 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.

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, cyanide compounds, ammonia, and oxides of

Products nitrogen.

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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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 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.

7. Handling and Storage

Precautions for Safe

Handling

Do not breathe gas/mist. Wash hands thoroughly after handling. Do

not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective

gloves/protective clothing/eye protection/face protection.

Conditions for Safe

Storage, including any

Incompatibilities

: Store locked up. 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 : Ethylene glycol (107-21-1)

OSHA PEL: 50ppm Ceiling; 125mg/m3 Ceiling ACGIH TLV-C: 100 mg/m3 Ceiling (aerosol only)

NIOSH: 50ppm Ceiling

Mexico 100 mg/m3 Ceiling (aerosol)

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.

Respirator

Hand Protection : Wear appropriate chemical resistant gloves.

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.

Skin Protection

: Wear appropriate chemical resistant clothing.

Physical and Chemical Properties

Appearance - Physical State : Liquid

> : Black - Color

Odor : characteristic odor

: 8-10 (25°C) Hα

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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: Not available **Explosive Properties** Oxidizing Properties : Not available Upper / Lower Flammability or : Not available

Explosive Limits

Vapor Pressure

: 1.1-1.2 (25 ° C) Specific Gravity Solubility : Not available

Water Solubility : Soluble

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

: 4-6 mPa·s (25 °C) Viscosity

Vapor Density : Not available **Evaporation Rate** : Not available Surface tension : 30-36mN/m

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.

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

agents, metals, metal salts, combustible materials

Hazardous : Combustion: oxides of carbon, cyanide compounds, ammonia, and

Decomposition oxides of nitrogen

11. Toxicological Information

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

Component Analysis sources and the following selected endpoints are published:

LD50/LC50 Ethylene glycol (107-21-1)

Oral LD50 Rat 4700 mg/kg; Dermal LD50 Rabbit 10600mg/kg

Propylene glycol (57-55-6)

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



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Immediate Effects : eye irritation, allergic skin reaction, central nervous system damage,

heart damage, kidney damage, respiratory damage.

Delayed Effects : allergic skin reaction, central nervous system damage, heart damage,

respiratory damage, kidneys damage.

Irritation/Corrosivity : eye irritation.

Data

Respiratory : No information available for the product.

Sensitization

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

sensitization hazards.

Carcinogenicity : Component Carcinogenicity

Ethylene glycol (107-21-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Mutagenic Data : No information available for the product.

Reproductive Effects : No information available for the product.

Data

Specific Target Organ : central nervous system, kidneys, heart, respiratory system

Toxicity - Single

Exposure

Specific Target Organ : central nervous system, heart, respiratory system

Toxicity - Repeated

Exposure

Aspiration Hazard : Not expected to be an aspiration hazard.

Medical Conditions : kidney disorders, skin disorders and allergies, eye disorders,

Aggravated by Exposure respiratory disorders, heart disorders.

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 - : Ethyle

: Ethylene glycol (107-21-1)

Aquatic Toxicity Fish: 96 Hr LC50 Oncorhynchus mykiss: 41000 mg/L; 96 Hr LC50

Oncorhynchus mykiss: 14 - 18 mL/L [static]; 96 Hr LC50 Lepomis



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macrochirus: 27540 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 40761 mg/L [static]; 96 Hr LC50 Pimephales promelas: 40000 - 60000 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 16000 mg/L [static] Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: 6500 - 13000 mg/L Invertebrate: 48 Hr EC50 Daphnia magna: 46300 mg/L

: Propylene glycol (57-55-6)

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]

Persistence and

: No information available for the product.

Degradability

Bioaccumulation : No information available for the product.

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 : Not regulated as dangerous goods for transport.



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IATA Information
 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.

UN Number : Not regulated

Marine Pollutants : Not regulated as dangerous goods for transport.

(IMDG)

International Bulk : This material contains one or more of the following chemicals

Chemical Code required by the IBC Code to be identified as dangerous chemicals in

bulk.

No	Chemical Name (CAS No.)	IBC Code
1	Ethylene glycol (107-21-1)	Category Y
2	Glycerols(Trade Secret)	Category Z

15. Regulatory Information

U.S. Federal : This material contains one or more of the following chemicals

Regulations required to be identified under SARA Sections 302/304 (40 CF)

required to be identified under SARA Sections 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), and/or require an OSHA process safety plan.

Ethylene glycol (107-21-1)

SARA 313: 1.0 % de minimis concentration CERCLA: 5000 lb final RQ; 2270 kg final RQ

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
Ethylene glycol (CAS No. 107-21-1)	Yes	Yes	Yes	Yes	Yes
1,2-Propylene glycol (CAS No. 57-55-6)	No	No	Yes	Yes	Yes

California Proposition 65

: WARNING:

This product can expose you to chemicals including Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canadian WHMIS

: Components of this material have been checked against the



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Ingredient Disclosure List (IDL) Canadian WHMIS Ingredients Disclosure List. The List is composed of 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.

Ethylene glycol (107-21-1) 1 % 1,2-Propylene glycol (57-55-6) 1 %

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 LIstsTM - 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

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