

SDS No. 037-W461430 First issue: 2016/08/18 Revised: 2019/12/10

Safety Data Sheets

1. Identification

Product Name : Reactive Dye Ink Rc400 Orange

Order No. : RC400-OR-2L

Ink Ver. : 1

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

SDS Number : 037-W461430

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

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

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

[GHS Label Elements]





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Signal Word Warning

Hazard Statements

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

Precautionary Statements

[Prevention]

P261 Avoid breathing gas/mist.

P264 Wash hands and eyes thoroughly after handling.

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.

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.

[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	50-60	7732-18-5
2	1,2-Propylene glycol	10-30	57-55-6
3	Glycerols	5-15	Trade Secret
4	Reactive Dye	10-20	Trade Secret
5	Additives	1-5	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 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



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advice/attention.

: If swallowed, get medical attention. Ingestion

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

Products

nitrogen.

Fire Fighting

Measures

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

oxides of carbon, cyanide compounds, ammonia, and oxides of

combustion by-products.

Special Protective

Equipment and

: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible

Precautions for

exposure.

Firefighters

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



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areas.

7. Handling and Storage

Precautions for Safe

Handling

: Avoid breathing gas/mist/vapors. Wash hands thoroughly after handling. 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 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 : ACGIH, OSHA, and NIOSH have not developed exposure limits for

any of this product's components.

Component Biological

Limit Values

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

product.

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

Protection

: Consult with a health and safety professional for specific respirators $% \left(x\right) =\left(x\right) +\left(x\right) +\left$

appropriate for your use.



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.



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Skin Protection : Wear appropriate chemical resistant clothing.



9. Physical and Chemical Properties

Appearance - Physical State : Liquid

- Color : Orange

Odor : characteristic odor

pH : 8-10 (25°C)

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

Explosive Properties : Not available
Oxidizing Properties : Not available

Upper / Lower Flammability or : Not available

Explosive Limits

Vapor Pressure

Specific Gravity $: 1.1 - 1.2 (25 \degree \text{ C})$

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

Surface tension : 30-36mN/m

10. Stability and Reactivity



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Reactivity : No reactivity hazard is expected.

Chemical Stability : Stable under normal conditions of use.

Possibility of Hazardous : V

: Will not polymerize.

Reactions

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

with incompatible materials.

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

agents, metals, metal salts, combustible materials

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

Decomposition oxides of nitrogen

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

Immediate Effects

: allergic skin reaction, eye irritation

Delayed Effects

: allergic skin reaction

Irritation/Corrosivity

: eye irritation

Data

Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : May cause an allergic skin reaction.

Carcinogenicity : Component Carcinogenicity

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

the component(s) of this product.

Mutagenic Data : No information available for the product.

Reproductive Effects

: No information available for the product.

Data

Specific Target Organ : No target of

: No target organs identified.

Toxicity - Single

Exposure

Specific Target Organ : N

: No target organs identified.

Toxicity - Repeated

Exposure



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Aspiration Hazard : Not expected to be an aspiration hazard.

Medical Conditions : skin allergies, eye disorders.

Aggravated by Exposure

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]

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



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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.

IATA Information : Not regulated as dangerous goods for transport.

ICAO InformationNot regulated as dangerous goods for transport.IMDG InformationNot 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	Glycerols(Trade Secret)	Category Z

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.

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

: Not regulated under California Proposition 65

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

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

Mimaki

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limits listed on the IDL.

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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