

SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

# Safety Data Sheets

#### Identification

**Product Name** : Reactive Dye Ink Rc300 Orange Order No. : RC300-OR-BB / RC300-OR-2L

Ink Ver. : 1

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

SDS Number : 037-W310800

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. : +1-678-730-0700 Emergency Telephone No. : +81-268-64-2281

#### 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]

Symbol



Signal Word Warning



SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

# Safety Data Sheets

**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).

## 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.

: Flush eyes with plenty of water for at least 15 minutes. Remove Eye Contact

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.

: If swallowed, get medical attention. Ingestion



SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

# Safety Data Sheets

#### Fire Fighting Measures

: Flash point Not flammable Flammable Properties

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

breathing apparatus (SCBA) for protection against possible Equipment and

Precautions for

exposure.

Firefighters

#### Accidental Release Measures

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

Protective Equipment Avoid release to the environment.

and Emergency

Procedures

Methods and Materials : Eliminate all ignition sources if safe to do so. Stop leak if possible

for Containment and without personal risk. Reduce vapors with water spray.

Cleaning Up 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.



SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

### 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

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.



SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

# Safety Data Sheets

Skin Protection : Wear appropriate chemical resistant clothing.



#### 9. Physical and Chemical Properties

- Physical State : Liquid Appearance

> - Color : Orange

Odor : characteristic odor

рH : 8-10 (25°C)

Boiling Point / Boiling Range : Not available

Melting Point / Melting Range : Not available

**Decomposition Temperature** : Not available

: Not flammable Flash Point

Auto ignition temperature : Not available

Flammability (Solid, Gas) : Not available

: Not available **Explosive Properties** 

Oxidizing Properties : Not available

: Not available Upper / Lower Flammability or

**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

: Not available Vapor Density

: Not available **Evaporation Rate** 

Surface tension : 30-36mN/m

#### 10. Stability and Reactivity

: No reactivity hazard is expected. Reactivity

Chemical Stability : Stable under normal conditions of use.



SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

# Safety Data Sheets

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, 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 organs identified.

Toxicity - Single

Exposure

Specific Target Organ

: No target organs identified.

Toxicity - Repeated

Exposure

**Aspiration Hazard** : Not expected to be an aspiration hazard.



SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

## Safety Data Sheets

**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. : No information available for the product. Mobility 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

components.

Disposal of

Numbers

: Empty containers may contain product residue. Dispose in

Contaminated

accordance with all applicable regulations.

Packaging



SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

### 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.

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.
 Not regulated as dangerous goods for transport.

UN Number : Not regulated

Marine Pollutant : Propylene glycol (57-55-6)

IBC Code: 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

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
Ingredient Disclosure
List (IDL)

: Components of this material have been checked against the

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.

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



SDS No. 037-W310800 First issue: 2012/06/08

Revised: 2016/08/17

#### 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.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.