

## SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**PRODUCT CODE:** 403040

**PRODUCT NAME:** Jewel Color for UV Resin Cyan

#### COMPANY IDENTIFICATION

|                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| Company name                                          | PADICO Co., Ltd.                                             |
| Address                                               | 673-3 Jinba Gotenba City, Shizuoka<br>JAPAN 412-0047         |
| Telephone                                             | 0550-89-7521                                                 |
| Department                                            | Research and Development section                             |
| Person in charge                                      | Yuta Endo                                                    |
| Fax                                                   | 0550-89-5951                                                 |
| Emergency telephone                                   | 0550-89-7536                                                 |
| E-mail                                                | <a href="mailto:safety@padico.co.jp">safety@padico.co.jp</a> |
| Recommended use of product<br>and restrictions on use | Coloring of UV curing resin                                  |

### 2. HAZARD IDENTIFICATION

#### GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

##### PHYSICAL HAZARDS

|                                                                              |                  |
|------------------------------------------------------------------------------|------------------|
| Explosives                                                                   | : Not classified |
| Flammable gases                                                              | : Not classified |
| Flammable aerosols                                                           | : Not classified |
| Oxidizing gases                                                              | : Not classified |
| Gases under pressure                                                         | : Not classified |
| Flammable liquids                                                            | : Category 4     |
| Flammable solids                                                             | : Not classified |
| Self-reactive substances and mixtures                                        | : Not classified |
| Pyrophoric liquids                                                           | : Not classified |
| Pyrophoric solids                                                            | : Not classified |
| Self-heating substances and mixtures                                         | : Not classified |
| Substances and mixture which, in contact<br>with water, emit flammable gases | : Not classified |
| Oxidizing liquids                                                            | : Not classified |
| Oxidizing solids                                                             | : Not classified |
| Organic peroxides                                                            | : Not classified |
| Corrosive to metals                                                          | : Not classified |

##### HEALTH HAZARDS

|                                      |                  |
|--------------------------------------|------------------|
| Acute toxicity(oral)                 | : Category 5     |
| Acute toxicity(skin)                 | : Not classified |
| Acute toxicity(inhalation: gas)      | : Category 5     |
| Acute toxicity(inhalation: dust)     | : Not classified |
| Acute toxicity(inhalation: mist)     | : Not classified |
| Skin corrosion / irritation          | : Not classified |
| Serious eye damages / eye irritation | : Category 2     |
| Respiratory sensitization            | : Not classified |
| Skin sensitization                   | : Not classified |
| Germ cell mutagenicity               | : Not classified |

Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 Specific target organ toxicity [single exposure] : Not classified  
 Specific target organ toxicity [repeated exposure] : Not classified  
 Aspiration hazard : Not classified

**ENVIRONMENTAL HAZARDS**

Aquatic toxicity (acute) : Not classified  
 Aquatic toxicity (chronic) : Not classified  
 Harmful effect on the ozone layer : Not classified

**GHS LABEL ELEMENTS INCLUDING :PRECAUTIONRY STATEMENTS**

SYMBOL : 

SIGNAL WORD : Warning  
 HAZARD STATEMENT : Flammable liquid  
 May be harmful if swallowed  
 May be harmful if inhaled  
 Causes serious eye irritation

**PRECAUTIONARY STATEMENTS**

[Prevention] : Do not handle until all safety precautions have been read and understood.  
 Keep away from flames and hot surfaces. No smoking.  
 Wear protective gloves/ eye protection/ face protection.  
 Wash the hands thoroughly after handling.  
 Wear eye protection/ face protection.

[Response] : IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.  
 IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.  
 IF IN EYES: 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.  
 In case of fire: use foam, powder (Dry chemical), carbon dioxide and sand to extinguish.

[Storage] : Store in a well-ventilated place. Keep cool.

[Disposal] : Dispose of contents/ container to waste in accordance with local/ regional/ national/ international regulations.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**SUBSTANCE/MIXTURE:**

| Component           | Content (%) | Cas No.    |
|---------------------|-------------|------------|
| Alcohol             | 60-70       | Registered |
| Synthetic resin     | 25-35       | Registered |
| Phthalocyanine blue | 0.5-1.0     | 147-14-8   |

**4. FIRST AID MEASURES**

- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.
- IF ON SKIN : Shed clothes that are attached content.  
Wash with plenty of soap and water. Get medical attention
- IF INHALED : Call a POISON CENTER/ doctor if you feel unwell.
- IF SWALLOWED : Rinse mouth with water.  
Call a POISON CNETER/ doctor if you feel unwell.

**5. FIRE-FIGHTING MEASURES**

- SUITABLE EXTINGUISHING MEDIA : foam, powder (Dry chemical), carbon dioxide, dry sand
- UNSUITABLE EXTINGUISHING MEDIA : Water
- SPECIFIC EXTINGTION METHOD : There is a possibility that the fire by heat, sparks and fire.  
Burn to vigorously heating.  
In event of a fire, there is a possibility to generate a corrosive, toxic and irritation gas.
- SPECIAL PROTECTIVE FOR FIRE-FIGHTERS : Remove all ignition sources if possible to do in safe.  
Not move when the container is exposed to heat.

**6. ACCIDENTAL RELEASE MEASURES**

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : Remove all ignition sources.  
Isolate the location of the possibility of leakage.  
Ventilate in the case of an enclosed area.
- ENVIROMENTAL PRECAUTIONS METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP RECOVERY AND NEUTRALIZATION : Do not release into the environment.  
Stop leak if without risk.
- MEASURES TO PREVENT SECONDARY DISASTER : Recover with inert material and put in a container.  
Remove all ignition sources immediately.  
Stop leak into the environment.

**7. HANDLING AND STORAGE**

- HANDLING
- TECHNICAL MEASURE (LOCAL-VENTILATION/WHLE-VENTILATION) : Take measures of as described in chepter”8. EXPOSURE CONTROLS / PERSONAL PROTECTION”.  
As much as possible to prevent the scattering of the vapor and the leakage of the liquid.
- NOTES : Wash the hands after handling.  
Do not eat, drink or smoke when using this product.  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Use only outdoors or in a well-ventilated area.

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
|                         | Don't swallow.                                              |
|                         | Don't put in eyes.                                          |
|                         | Avoid contact with skin.                                    |
| CONTACT EVASION         | : See chapter 10"STABILATY AND REACTIVITY".                 |
| <b>STORAGE</b>          |                                                             |
| APPROPRIATE SAFEKEEPING | : Avoid strong oxidizing agent.                             |
| CONDITION               | : Seal the container and storage in a well-ventilated area. |
| PACAGING MATERIALS      | : No data                                                   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| CONTROL LIMIT                 | : Not set                                                  |
| OCCUPATIONAL                  | : Not set                                                  |
| EXPOSURE LIMITS               |                                                            |
| FACILITY AND                  | : Provide shower and eye washer at place where is stored   |
| EQUIPMENT MEASURES            | and handled this material.                                 |
| PERSONAL PROTECTIVE EQUIPMENT |                                                            |
| Respiratory protection        | : Wear respiratory protective device.                      |
| Hand protection               | : Wear rubber gloves.                                      |
| Eye protection                | : Wear safety goggles.                                     |
| Skin and body protection      | : Wear personal protective equipment and protective shoes. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                     |                                               |
|-------------------------------------|-----------------------------------------------|
| Physical condition                  | : Liquid                                      |
| Color                               | : Cyan                                        |
| Odour                               | : Few specific odor                           |
| pH                                  | : No date                                     |
| Freezing point                      | : No data                                     |
| Boiling point                       | : $\leq 161^{\circ}\text{C}$                  |
| Flash point                         | : $\geq 64.5^{\circ}\text{C}$ (closed method) |
| Explosion properties                | : No data                                     |
| Vapor pressure                      | : No data                                     |
| Specific gravity                    | : No data                                     |
| Solubility                          | : Insoluble in water. Soluble in alcohol.     |
| Octanol/water partition coefficient | : No data                                     |
| Autoignition temperature            | : $\geq 239^{\circ}\text{C}$                  |
| Decomposition temperature           | : No data                                     |

## 10. STABILATY AND REACTIVITY

|                          |                                          |
|--------------------------|------------------------------------------|
| REACTIVITY               | : Nothing                                |
| STABILITY                | : Stable under the usual handling.       |
| POSSIBILITY OF HAZARDOUS | : Reacts with strong oxidants.           |
| REACTIONS                |                                          |
| CONDITIONS TO AVOID      | : Burning.                               |
| INCOMPATIBLE MATERIALS   | : Strong oxidants.                       |
| HAZARDOUS DECOMPOSITION  | : Toxic gas include the carbon monoxide. |
| PRODUCTS                 |                                          |

**11. TOXICOLOGICAL INFORMATION**

|                                                    |   |            |
|----------------------------------------------------|---|------------|
| ACUTE TOXICITY [ORAL]                              | : | Category 5 |
| ACUTE TOXICITY [SKIN]                              | : | No data    |
| ACUTE TOXICITY [INHALATION]                        | : | Category 5 |
| SKIN CORROSION/IRRITATION                          | : | No data    |
| SERIOUS EYE DAMAGE/EYE IRRITATION                  | : | Category 2 |
| RESPIRATORY OR SKIN SENSITIZATION                  | : | No data    |
| GERM CELL MUTAGENICITY                             | : | No data    |
| CARCINOGENICITY                                    | : | No data    |
| REPRODUCTIVE TOXICITY                              | : | No data    |
| SPECIFIC TARGET ORGAN TOXICITY [SINGLE EXPOSURE]   | : | No data    |
| SPECIFIC TARGET ORGAN TOXICITY [REPEATED EXPOSURE] | : | No data    |
| ASPIRATION HAZARD                                  | : | No data    |

**12. ECOLOGICAL INFORMATION**

|                                   |   |         |
|-----------------------------------|---|---------|
| ECOTOXICITY                       | : | No data |
| DEGRADABILITY AND PERSISTENCE     | : | No data |
| BIOACCUMULATION POTENTIAL         | : | No data |
| MOBILITY IN SOIL                  | : | No data |
| HARMFUL EFFECT ON THE OZONE LAYER | : | No data |

**13. DISPOSAL CONSIDERATION**

|                                 |   |                                                                                                                  |
|---------------------------------|---|------------------------------------------------------------------------------------------------------------------|
| THE REMAINDER WASTE             | : | Dispose of contents/ container to waste in accordance with local/ regional/ national/ international regulations. |
| POLLUTION CONTAINER AND PACKING | : | Dispose of contents/ container to waste in accordance with local/ regional/ national/ international regulations. |

**14. TRANSPORT INFORMATION  
INTERNATIONAL REGULATIONS**

|               |   |                |
|---------------|---|----------------|
| UN number     | : | Not applicable |
| Hazard class  | : | Not applicable |
| Packing Group | : | Not applicable |

**15. REGULATORY INFORMATION**

|                                                                                          |   |                                                                                    |
|------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------|
| The evaluation of chemical substances and regulation of their manufacture, etc. ( JAPAN) | : | Dangerous goods (flammability)<br>Notification substance: copper and its compounds |
| Industrial Safety and Health act (JAPAN)                                                 | : | Not applicable                                                                     |
| Fire and Disaster Management act (JAPAN)                                                 | : | Class 4 petroleum No.2                                                             |
| Poisonous and Deleterious Substances control act (JAPAN)                                 | : | Not applicable                                                                     |

## 16. OTHER INFORMATION

### REFERENCES

1. Japan chemical industry association, “GHS correspondence guideline (2012)”
2. National institute of technology and evaluation, “Chemical Risk Information Platform(CHRIP)”  
<http://www.safe.nite.go.jp/japan/db.html>
3. National Institute of Health Sciences (NIHS), “International Chemical Safety Cards (ICSC) -Japanese Version-”  
<http://www.nihs.go.jp/ICSC/>
4. UNITED NATIONS, “GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Rev.4 (2011)

All specifications are to be created based on the information we can get at this time may be revised by new knowledge.

The content, the physico-chemical property and so on are not a guaranteed performance. Notes are usually aimed at handling. If special handling, usage, please Usage for safety measures.