

SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT CODE: 403045

PRODUCT NAME: Jewel Color for UV Resin White

COMPANY IDENTIFICATION

Company name	PADICO Co., Ltd.
Address	673-3 Jinba Gotenba City, Shizuoka 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	safety@padico.co.jp
Recommended use of product 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 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)	: Not classified
Acute toxicity(skin)	: Not classified
Acute toxicity (inhalation: gas)	: Not classified
Acute toxicity (inhalation: dust)	: Not classified
Acute toxicity (inhalation: mist)	: Not classified
Skin corrosion / irritation	: Not classified
Serious eye damages / eye irritation	: Category 2B
Respiratory sensitization	: Not classified
Skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified

Carcinogenicity : Category 2
 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
 Causes serious eye irritation.
 Suspected of causing cancer.

PRECAUTIONRY 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/ protective clothing/ eye protection/ face protection.
 Wash the hands thoroughly after handling.
 Wear eye protection/ face protection.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.

[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.
 If exposed or concerned: Get medical advice/ attention.

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

[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.
Glycols	70-80	Registered
Synthetic resin	10-20	Registered
Titanium oxide	1.0-5.0	13463-67-7
Silicon dioxide	1.0-5.0	7631-86-9

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 CENTER/ 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 EXTINGUISHING 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 be able 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.
- ENVIRONMENTAL PRECAUTIONS : Do not release into the environment.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP : Stop leak if without risk.
- RECOVERY AND NEUTRALIZATION : Recover with inert material and put in a container.
- MEASURES TO PREVENT SECONDARY DISASTER : 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

NOTES	:	the vapor and the leakage of the liquid. 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. Do not swallow. Do not put in eyes. Avoid contact with skin.
CONTACT EVASION	:	See chapter 10" STABILATY AND REACTIVITY".
STORAGE		
APPROPRIATE SAFEKEEPING CONDITION	:	Avoid strong oxidizing agent. 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 EQUIPMENT MEASURES	:	Provide shower and eye washer at place where is stored 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	:	White
Odour	:	Few specific odor
pH	:	No date
Freezing point	:	No data
Boiling point	:	≤ 161°C
Flash point	:	≥ 64.5°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	:	≥ 239°C
Decomposition temperature	:	No data

10. STABILATY AND REACTIVITY

REACTIVITY	:	Nothing
STABILITY	:	Stabile under the usual handling.
POSSIVILITY OF HAZARDOUS	:	Reacts with strong oxidants.

REACTIONS

CONDITIONS TO AVOID : Burning.
 INCOMPATIBLE MATERIALS : Strong oxidants.
 HAZARDOUS DECOMPOSITION : Toxic gas included the carbon monoxide.
PRODUCTS

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY [ORAL] : No data
 ACUTE TOXICITY [SKIN] : No data
 ACUTE TOXICITY [INHALATION] : No data
 SKIN CORROSION/IRRITATION : No data
 SERIOUS EYE DAMAGE/EYE IRRITATION : Category 2B
 RESPIRATORY OR SKIN SENSITIZATION : No data
 GERM CELL MUTAGENICITY : No data
 CARCINOGENICITY : Category 2
 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)
 Notification substance: Titanium oxide
 Industrial Safety and Health act (JAPAN) : Not applicable
 Fire and Disaster Management act : Class 4 petroleum No.2

(JAPAN)

Poisonous and Deleterious Substances : Not applicable
control act (JAPAN)

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, "GLOVALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OG 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 physic-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.