

SAFETY DATA SHEET**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION****PRODUCT CODE:** 403368**PRODUCT NAME:** UV-LED Coating Resin “Star Drop Gloss” 10g**COMPANY IDENTIFICATION**

Company name	PADICO Co., Ltd.
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Telephone	0550-89-7521
Department	Department of quality assurance
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	UV curable coating agent

2. HAZARD IDENTIFICATION**GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

Acute toxicity (oral)	:	Category 5
Skin corrosion/ irritation	:	Category 2
Serious eye damages / eye irritation	:	Category 2A
Skin sensitization	:	Category 1

GHS LABEL ELEMENTS INCLUDING: PRECAUTIONRY STATEMENTS

SYMBOL



SIGNAL WORD	:	Warning
HAZARD STATEMENT	:	May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction

PRECAUTIONRY STATEMENTS

[Prevention]	:	Wash hands thoroughly after handling. Wear protective gloves. Wash hands thoroughly after handling. Do not touch eyes. Wear eye protection/ face protection.
[Response]	:	IF SWALLOWED: get medical help. IF ON SKIN: After wiping off the deposits, wash well with soapy water. 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 help. If skin irritation occurs: Get medical help. Take off contaminated clothing and wash it before reuse.
[Storage]	:	Store in cool and dark space (5~40°C)
[Disposal]	:	Disposal of contents/ container to waste in accordance with local/ regional/ national/ international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: MIXTURE

Component	Content (%)	Cas No.
acrylic-modified oligomer	30-40	Company secret
Acrylic ester(I)	25-35	Company secret
Acrylic ester(II)	10-20	Company secret
Poly-thiol	15-25	Company secret
Additives (photo initiator etc.)	<1	Company secret

4. FIRST AID MEASURES

- IF IN EYES : Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses, continue rinsing. Get medical attention.
- IF ON SKIN : Remove attached substance and wash with plenty of soap and water. Take off immediately all contaminated clothing and shoes. If skin irritation or rash occurs, get medical attention.
- IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
- IF SWALLOWED : Rinse mouth with water and get medical attention immediately.

5. FIRE-FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA : Powder (Dry chemical), carbon dioxide, form
- UNSUITABLE EXTINGUISHING MEDIA : Water
- SPECIFIC HAZARDS : This substance may ignite by heat, spark, flame and burn with intense heating. At fire, irritative, corrosive and toxic gas may be generated.
- SPECIFIC EXTINGTION METHOD : Remove all ignition sources and fight a fire wearing protective equipment. In case of flowing out, dam up it and keep container away from fire.
- SPECIAL PROTECTIVE FOR FIRE-FIGHTERS : Wear respiratory protective equipment to avoid inhalation to toxic gas and fire-extinguishing work is done form windward.

6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : Work is done form windward and avoids inhalation to vapor and contact with skin wearing protective equipment. Keep people away from downwind. Non-participants are banned from entering around leakage area. Remove ignition sources and prepare fire extinguishers.
- ENVIROMENTAL PRECAUTIONS : Prevent product from entering drains.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP : If not danger, stop leak.
- RECOVERY AND NEUTRALIZATION : Absorb spilled material in rag or sand and put in a disposal container with a lid. In case of large amount of spillage, dam up it with sand etc.
- MEASURES TO PREVENT SECONDRY DISASTER : Promptly remove all sources of ignition in the vicinity.

7. HANDLING AND STORAGE

- HANDLING**
- TECHNICAL MEASURE (LOCAL-VENTILATION/ WHLE-VENTLATION) : Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Wear protective equipment if inhalant or contact is possible.
- NOTES : Thoroughly ventilated. Ware appropriate protective equipment (glasses, gloves, etc.). Prevent contact to strong acids, strong basses. Oxidizing agents (peroxide etc.) and amines.

Wash hands thoroughly after handling.

STORAGE

- APPROPRIATE SAFEKEEPING CONDITION : Keep container tightly closed.
Store in a cool, dark, dry, well-ventilated cabinet or refrigerator.
Store away from incompatible materials such as strong acids, strong bases, oxidizing agents (peroxide etc.) and amines.
- PACAGING MATERIALS : Use materials that protection from light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- CONTROL LIMIT : Not set
- OCCUPATIONAL EXPOSURE LIMITS : Not set
- FACILITY AND EQUIPMENT MEASURES : Use adequate ventilation system (local exhaust, closed system, general ventilation etc.) to avoid inhalation to vapor. Near to workplace install hand washer, eye washer and safety shower.
- PERSONAL PROTECTIVE EQUIPMENT
- Respiratory protection : Organic vapor respirator. Follow local and national regulations.
- Hand protection : Impermeable gloves (polyethylene or rubber gloves).
- Eye protection : Safety goggles or safety glasses with side shields.
- Skin and body protection : Protective clothing and protective boots (impermeable).

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical condition : Middle viscosity liquid
- Color : Light bluish purple transparent
- Odor : Characteristic odor
- pH : No data
- Freezing point : No data
- Boiling point : No data
- Flash point : 135°C
- Explosion properties : No data
- Vapor pressure : No data
- Specific gravity : 1.11 (25°C)
- Solubility : Soluble in organic solvents (toluene, acetone, ethanol etc.)
- Octanol/water partition coefficient : No data
- Autoignition temperature : No data
- Decomposition temperature : No data
- Viscosity : 200~250 mPa · s (25°C)

10. STABILATY AND REACTIVITY

- STABILITY : Stable at moderate condition Exothermic polymerization may occur under high temperature or photo irradiation.
- POSSIVILITY OF HAZARDOUS REACTIONS : Exothermic polymerization may occur under high temperature or photo irradiation.
Violet reaction may occur under mixing with strong acids, strong bases, oxidizing agents (peroxide etc.) and amines.
- CONDITIONS TO AVOID : High temperature, Light irradiation
- INCOMPATIBLE MATERIALS : Strong acids, strong bases, oxidizing agents, amines etc.
- HAZARDOUS DECOMPOSITION PRODUCTS : No data

11. TOXICOLOGICAL INFORMATION

- ACUTE TOXICITY [ORAL] : LD50 (rat) 4890 mg/kg (Acrylic ester(II)) > 4893mg/kg (calculation, 69% of the mixture consist of ingredient(s) of unknown acute toxicity (oral).
- ACUTE TOXICITY [SKIN] : LD50 (rabbit) >5000mg/kg (Acrylic ester(II))

ACUTE TOXICITY [INHALATION]	: No data
SKIN CORROSION/IRRITATION	: Acrylic ester(I),(II), and poly- thiol : category 2
SERIOUS EYE DAMAGE/EYE IRRITATION	: Acrylic ester(II) and poly-thiol: category 2A
RESPIRATORY OR SKIN SENSITIZATION	: Poly-thiol and photo initiator: category 1 (skin sensitization)
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	: In view of physical and chemical properties, it is possible to move to atmosphere, water, and soil.
HARMFUL EFFECT ON THE OZONE LAYER	: No data

13. DISPOSAL CONSIDERATION

THE REMAINDER WASTE	: Dispose of according to all applicable federal, state, and local environmental regulations.
POLLUTION CONTAINER AND PACKING	: Cleaning for recycling of dispose of according to all applicable federal, state, and local environmental regulations.

**14. TRANSPORT INFORMATION
INTERNATIONAL REGULATIONS**

Rail and road transportation information	: Comply with ADR/ RID regulations
Marine transportation information	: Comply with IMO regulations
Aviation transportation information	: Not regulated for transport with ICAO/ IATA regulations
UN number	: Not applicable
Hazard class	: Not applicable
Proper Shipping Name	: None
Packing Group	: Not applicable
Special precaution	: none

15. REGULATORY INFORMATION

Fire and disaster management act (JPAN)	: Class-4 No.4 petroleum Dangerous grade 3
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16. OTHER INFORMATION**REFERENCES**

1. Japan chemical industry association, “GHS correspondence guideline (2019)”
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 OF CHEMICALS (GHS) Rev.9 (2021)

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.