

## SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**PRODUCT CODE:** 403241

**PRODUCT NAME:** UV-LED RESIN "STAR DROPS" Hard 200g

#### 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	<a href="mailto:safety@padico.co.jp">safety@padico.co.jp</a>
Recommended use of product and restrictions on use	Production of handcraft work and accessories

### 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	:	Not classified
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 HAZERDS**

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 : Category 2  
 Serious eye damages / eye irritation : Category 2A  
 Respiratory sensitization : Not classified  
 Skin sensitization : Category 1  
 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 HAZERDS**

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 WARD : Warning  
 HAZARD STATEMENT : Causes slight skin irritation  
 Causes serious eye irritation

**PRECAUTINARY STATEMENTS**

[Prevention] : Use explosion-proof electric apparatus. Remove ignition sources (static electricity and spark etc.).  
 Avoid inhalation to vapor / mists. Use adequate ventilation system (local exhaust, closed system, general ventilation etc.).

Wash hands and face thoroughly and gargle after handling.  
Wear impermeable gloves and safety glasses, etc. and avoid contact with skin, eyes and clothes, etc.

If material is spilled, absorb with inert materials (rag and sand etc.) and put in a disposal container with a lid.

- [Response] : Fire: Fire fighting with powder, carbon dioxide or foam.  
Inhalation: Remove victim to fresh air and keep at rest in position comfortable for breathing. Get medical attention immediately.  
Eye contact: Rinse cautiously with clean water for at least 15 minutes and get medical attention.  
Skin contact: Remove attached substances and wash with plenty of soap and water. If skin irritation or rash occurs, get medical attention.  
Ingestion: Rinse mouth with water and get medical attention immediately.
- [Storage] : Keep in tightly container. Store in cool, dark, dry, well-ventilated cabinet or refrigerator.
- [Disposal] : Dispose of according to all applicable federal, state and local environmental regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**SUBSTANCE/MIXTURE:** Mixture

**SYNONYMS:** Acrylic UV curable resin

Component	Content (%)	Cas No.
Acrylic ester	42-52	Company secret
Acrylic-modified oligomer( I )	12-22	Company secret
Acrylic-modified oligomer(II)	8-18	Company secret
Methacrylic ester	6-12	Company secret
Polythiol	8-18	Company secret
Additives (photoinitiator etc.)	<1	Company secret

### 4. FIRST AID MEASURES

- IF IN EYES : Rinse cautiously with clean water for at least 15minutes. 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, foam

UNSUITABLE EXTINGUISHING MEDIA : Water

SPECIFIC HAZARDS : This substance may ignite by heat, spark and 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 from windward.

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : Work is done from 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 : 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.

**7. HANDLING AND STORAGE****HANDLING**

TECHNICAL MEASURE : No fire. Use explosion-proof electric apparatus and remove ignition sources (static electricity and spark etc.). Wear suitable protective equipment to avoid inhalation or contact.

(LOCAL-VENTILATION/WHLE-VENTILATION) : Use adequate ventilation system (local exhaust, closed system, general ventilation etc.).

NOTES : Use protective equipment. Avoid inhalation to vapor and contact with skin, eyes and clothing. Prevent contact to strong acids, strong bases, oxidizing agents (peroxide etc.) and amines. Wash hands and face thoroughly and gargle after handling.

**STORAGE**

APPROPRIATE SAFEKEEPING : Law is followed. 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 : Law is followed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

CONTROL LIMIT : Not set up

OCCUPATIONAL : No set up

**EXPOSURE LIMITS**

FACILITY AND : 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	:	High viscosity liquid
Color	:	Light bluish purple transparent
Odor	:	Characteristic odor
pH	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	>172°C (calculated)
Explosion properties	:	No data available
Vapor pressure	:	No data available
Specific gravity	:	Approx 1.17 (25°C)
Solubility	:	Very soluble in organic solvents (toluene, acetone, ethanol etc.)
Octanol/water partition coefficient	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	2600-3800mPa · s (25°C)

## 10. STABILITY AND REACTIVITY

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

**11. TOXICOLOGICAL INFORMATION**

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

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	:	No data available
DEGRADABILITY AND PERSISTENCE	:	No data available
BIOACCUMULATION POTENTIAL	:	No data available
MOBILITY IN SOIL	:	In view of physical and chemical properties, it is possible to move to atmosphere, waters and soil.
HARMFUL EFFECT ON THE OZONE LAYER	:	No data available

**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**

UN number	:	Not listed
Hazard class	:	Does not correspond to the classification standard of united

nations

## 15. REGULATORY INFORMATION

Fire and Disaster Management act : Class-4 No.4 petroleum Dangerous grade 3  
(JAPAN) (water-insoluble fluid)

## 16. OTHER INFORMATION

### REFERENCES

1. Japan chemical industry association, “GHS correspondence guideline (2012)”
2. UNITED NATIONS, “GLOVALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Rev.4 (2011)
3. Get our source materials

The assessment of hazards and toxicity is not necessarily enough, and sufficient care should be taken for handling. This SDS is a summary, and the stated cautions are for normal handling only. Safe usage conditions shall be set up on each user’s own responsibility after the manufacturer and/or recognized technical sources, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. It may be revised based on a revision of the law and new information or amendments.