

SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT CODE: 404183

PRODUCT NAME: UV Curing Resin “Sun Drop” Hard Type 5g

COMPANY IDENTIFICATION

Company name	PADICO Co., Ltd.
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Department	Research and Development section
Person in charge	Yuta Endo
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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) : Category 3
 Aquatic toxicity (chronic) : Category 3
 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
 May cause an allergic skin reaction
 Harmful to aquatic life
 Harmful to aquatic life with long lasting effects

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 form.
 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	31-41	Company secret
Acrylic-modified oligomer(I)	17-27	Company secret
Methacrylic ester	8-18	Company secret
Acrylic-modified oligomer(II)	11-21	Company secret
Polythiol	5-10	Company secret
Additives (photoinitiator etc.)	4-8	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 (LOCAL-VENTILATION/WHLE-VENTILATION) : 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.

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 CONDITION : 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 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	:	High viscosity liquid
Color	:	Colorless – pale yellow clear
Odor	:	Characteristic odor
pH	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	>127°C (calculated)
Explosion properties	:	No data available
Vapor pressure	:	No data available
Specific gravity	:	Approx 1.16 (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	:	2600-5200mPa · 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 : No data available

PRODUCTS

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, Perfume : Category 2
 SERIOUS EYE DAMAGE/EYE IRRITATION : Methacrylic ester: Category 2
 Polythiol: Category 2A
 RESPIRATORY OR SKIN SENSITIZATION : Perfume: Category 1
 GERM CELL MUTAGENICITY : No data available
 CARCINOGENICITY : No data available
 REPRODUCTIVE TOXICITY : No data available
 SPECIFIC TARGET ORGAN TOXICITY : No data available
 [SINGLE EXPOSURE]
 SPECIFIC TARGET ORGAN TOXICITY : No data available
 [REPEATED EXPOSURE]
 ASPIRATION HAZARD : No data available

12. ECOLOGICAL INFORMATION

ECOTOXICITY : Perfume: Category 3
 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 : Cleaning for recycling of dispose of according to all
 PACKING 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 (JAPAN) : Class-4 No.4 petroleum Dangerous grade 3 (water-insoluble fluid)

16. OTHER INFORMATION

REFERENCES

1. Japan chemical industry association, “GHS correspondence guideline (2012)”
2. UNITED NATTONS, “GLOVALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OG 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.