SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY INDETIFICATION PRODUCT CODE: 403236 PRODUCT NAME: LED Curing RESIN Star Drop Hard Type 30g

COMPANY IDENTIFICATION Company name

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Production of handcraft work and
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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	:	Not classified
with water, emit flammable gases		
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

SYMBOL	ty [repeated exposure] ERDS e layer INCLUDING: PRECAU :	 Not classified AUTIONRY STATEMENTS
SIGNAL WARD	: Warning	
HAZARD STATEMENT	: Causes slight ski	kin irritation
	Causes serious e	eye irritation
PRECAUTINARY STATEM		
[Prevention] [Response]	sources (static ele Avoid inhalation system (local exh etc.). Wash hands and Wear impermeab contact with skin If material is spil sand etc.) and pu Fire: Fire fightin Inhalation: Remo position comforta immediately. Eye contact: Rins minutes and get Skin contact: Rem plenty of soap an medical attention	proof electric apparatus. Remove ignition electricity and spark etc.). n to vapor / mists. Use adequate ventilation khaust, closed system, general ventilation d face thoroughly and gargle after handling. able gloves and safety glasses, etc. and avoid in, eyes and clothes, etc. pilled, absorb with inert materials (rag and put in a disposal container with a lid. ing with powder, carbon dioxide or form. nove victim to fresh air and keep at rest in table for breathing. Get medical attention mse cautiously with clean water for at least 15 et medical attention. emove attached substances and wash with and water. If skin irritation or rash occurs, get on. e mouth with water and get medical attention
[Storage]	: Keep in tightly co	container. Store in cool, dark, dry,
		cabinet or refrigerator.
[Disposal]	: Dispose of accord environmental re	rding to all applicable federal, state and local 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 (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 al 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 SWALOWED	:	Rinse mouth with water and get medical attention immediately.

5. FIRE-FIGHTING MEASURES

	,			
SUITABLE EXTINGUISHING	:	Powder (Dry chemical), carbon dioxide, form		
MEDIA		117		
UNSUITABLE EXTINGUISHING	:	Water		
MEDIA				
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	:	Remove all ignition sources and fight a fire		
METHOD		wearing protective equipment. In case of flowing out, dam up it and keep container away from fire.		
SPECIAL PROTECTIVE FOR	:	Wear respiratory protective equipment to avoid		
FIRE-FIGHTERS		inhalation to toxic gas and fire-extinguishing		
		work is done form windward.		
6. ACCIDENTAL RELEASE MEA	ASUI	RES		
PERSONAL PRECAUTIONS,		: Work is done form windward and avoids		
PROTECTIVE EQUIPMENT AND		inhalation to vapor and contact with skin		
EMERGENCY PROCEDURES		wearing protective equipment. Keep people		
		away from downwind.		
		Non-participants are banned from entering		

ENVIROMENTAL PRECAUTIONS METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- around leakage area. Remove ignition sources and prepare fire extinguishers.
- : Prevent product from entering drains.
- : 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.

Creation Date: August 3, 2017 Revision Date: November 16, 2022

7. HANDLING AND STORAGE HANDLING	Ξ	
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.	
NOTES	 Use adequate ventilation system (local exhaust, closed system, general ventilation etc.). Use protective equipment. Avoid inhalation to vapor and contact with skin, eyes, and clothing. Prevent contact to strong acids, strong basses, oxidizing agents (peroxide etc.) and amines. Wash hand and face thoroughly and gargle after headling. 	
STORAGE	handling.	
APPROPRIATE SAFEKEEPING	: Law is followed. Keep container tightly closed.	
CONDITION	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	: Low is followed.	
8. EXPOSURE CONTROLS / F	FRSONAL PROTECTION	
CONTROL LIMIT :	Not set up	
OCCUPATIONAL	Not set up	
EXPOSURE LIMITS	Not set up	
FACILITY AND :	Use adequate ventilation system (local exhaust, closed	
EQUIPMENT MEASURES	system, general 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 EQUI	-	
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	:	$>172^{\circ}$ C (calculated)
Explosion properties	:	No data available
Vapor pressure	:	No data available
Specific gravity	:	Approx. 1.17 (25°C)
Solubility	:	Soluble in organic solvents (toluene, acetone,

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		ethanol etc.)
Octanol/water partition coefficient	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	2600-3800 mPa ⋅ s (25°C)

10. STABILATY AND REACTIVITY REACTIVITY :

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. 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: Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION	:	Polythiol: Category 2A
RESPIRATIORY OR SKIN SENSITIZATION	:	Polythiol: 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	:	No data available
DEGRADABILITY AND PERSISTENCE	:	No data available
BIOACCUMULATION POTENTIAL	:	No data available

properties, it is possible to move to atmosphere, water, and soil. IE OZONE LAYER : No data available

:

HARMFUL EFFECT ON THE OZONE LAYER

MOBILITY IN SOIL

In view of physical and chemical

Creation Date: August 3, 2017 Revision Date: November 16, 2022

13. DISPOSAL CONSIDERATION THE REMAINDER WASTEPOLLUTION CONTAINER ANDPACKING	Dispose of according to all applicable federal, state, and local environmental regulations. 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

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	:	-
Packing Group	:	Not applicable
Special precaution	:	None

15. REGULATORY INFORMATION

Fire and Disaster Management act	:	Not applicable
(JAPAN)		

16. OTHER INFORMATION REFERENCES

- 1. Japan chemical industry association, "GHS correspondence guideline (2012)"
- National institute of technology and evaluation, "Chemical Risk Information Platform (CHRIP)" <u>http://www.safe.nite.go.jp/japan/db.html</u>
- National Institute of Health Sciences (NIHS), "International Chemical Safety Cards (ICSC) -Japanese Version-<u>http://www.nihs.go.jp/ICSC/</u>
- 4. UNITED NATTONS, "GLOVALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OG CHEMICALS (GHS) Rev.5 (2013)

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.