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INFORMATION ON THIS FORM IS PROPRIETARY INFORMATION AND FURNISHED SOLELY FOR THE USE OF OUR CUSTOMERS.

Identification of the substance/preparation and of the company/undertaking SECTION 1:

Product details

Trade name

: SUPER H-UV ROYAL SILVER

MSDS number

: SHURS20160901

Application of the substance / the preparation : Printing Ink

Manufacturer/Supplier:

MITSUBOSHI PRINTING INK CO.,LTD.

HIGASHI 1-103 HAMADERAFUNAO-CHO NISHIKU SAKAI OSAKA 5928341 JAPAN

FAX: +81-72-264-1421 PHONE: +81-72-261-8250

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#### SECTION 2 : Hazards identification

#### **GHS Classification**

Physical hazards Flammable solids	<u>Category</u> Not classified
Health hazards	<u>Category</u>
Acute toxicity - oral	Classification not possible
Acute toxicity - dermal	Classification not possible
Acute toxicity - inhalation (gas)	Not applicable
Acute toxicity - inhalation (vapor)	Classification not possible
Acute toxicity - inhalation (dust, mist)	Classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Respiratory sensitization	Classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Toxic to reproduction	Classification not possible
Specific target organ toxicity (single exposure)	Classification not possible
Specific target organ toxicity (repeated exposure)	Classification not possible
Respiratory tract irritation	Classification not possible
Environmental hazards	Category
Hazardous to the aquatic environment – acute	Category 3
Hazardous to the aquatic environment – chronic	Category 3

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#### **GHS Label Elements**

Symbols:





Signal word

: Warning

Hazard statement

: H315 Causes skin irritation

: H320 Causes eye irritation

: H317 May cause an allergic skin reaction. Harmful to aquatic life

: H402 : H412

Harmful to aquatic life with long lasting effects

Precautionary Statements

General

: Be sure to read Safety Data Sheet (SDS) in use.

Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray. : P261

Wash hands thoroughly after handling.

: P264

Contaminated work clothing should not be allowed out of the workplace. : P272

: P273 Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection. : P280

Response

: P302+352

If on skin: Wash with plenty of soap and water.

: P305+351

IF IN EYES: Rinse cautiously with water for several minutes.

+338

Remove contact lenses, if present and easy to do. Continue rinsing.

: P321 Specific treatment.

: P332+P313

If skin irritation occurs: Get medical advice/attention.

P333+P313

If skin irritation or rash occurs: Get medical advice / attention.

: P337+313

If eye irritation persists: Get medical advice/attention.

: P362+364

Take off contaminated clothing and wash it before reuse.

Storage

Disposal

: P501

Dispose of contents/container by entrust to the industrial waste disposal

contractors who obtain permission of the prefectural governors.

#### SECTION 3: Composition/information on ingredients

Classification of Substance or Mixture

: Mixture

Chemical name or General name

: Offset Printing Ink

Substance	CAS No.	Content
Aluminum	7429-90-5 5-15%	
Monomer	Undisclosed	5-15%
Photo-sensitive resin	Undisclosed	25-35%
Photo-sensitive monomer	Registered	30-40%
Photo initiator	Undisclosed	5-15%
Additive	Registered	1-5%

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SECTION 4: First-aid measures

If inhaled : Remove person to fresh air and keep comfortable for breathing.

: Get medical advice/attention if necessary.

If on skin : Wash with plenty of soap and water.

: If skin irritation or rash occurs : Get medical advice/attention.

If in eye : Rinse cautiously with for several minutes. Get medical advice/attention.

: If eye irritation persists : get medical advice/attention.

If swallowed : Do NOT induce vomiting. Immediately call a doctor.

SECTION 5 : Fire-fighting measures

Suitable extinguishing agents : Powder, Form, Carbon dioxide, Water, Dry sand, Misty agent.

Unsuitable extinguishing agents : Straight stream

Special hazards : Move containers to safe places immediately.

#### SECTION 6: Accidental release measures

## Personal precautions

#### Protective equipment and emergency procedures

- : Wear protective gloves/protective clothing/eye protection.
- : Ventilate well until completely-processed if indoor.
- : Evacuate people downwind.
- : Seal off the place which materials leaked out by loping.
- : Clear immediately nearby ignition sources.

### Environmental precautions

: Avoid release to the environment.

# Methods and materials for contaminant and cleaning up

: Wash away the contaminated place with plenty of water and dispersing agent after collecting spillage in an empty container.

#### SECTION 7: Handling and storage

#### Handling

Technical countermeasure : Conduct the facility measures in Section 8. Wear protective equipment.

Local exhaust/General ventilation : Seal the source or install general ventilation device if indoor.

Precaution for safe handling : Close a container each use. (For prevention of drying or ink film)

: Eliminate contaminant if attached on work clothing.: Wash hands and rinse mouth thoroughly after handling.: Burn/dispose a rag wiped out the product immediately.

#### Storage

Conditions for safe storage : If over designated, comply with the fire prevention ordinance.

: Store away from ignition sources.

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Exposure controls / personal protection SECTION 8 :

: Not set Control parameters of Compositional substances

	Control parameter	ACGIH	
Aluminum	3.0mg/m³	10mg/m³ (powder)	

Equipment provision

: Install ventilation device if generated mist or vapor.

Protective equipment

: Use a mask in case mist or vapor is produced. Respiratory protection

Protection of hands

: Protective gloves

Eye protection

: Protective eye protection

Skin protection

: Protective clothing, protective boots

#### Physical and chemical properties SECTION 9:

Information on basic physical and chemical properties

Appearance

: Pasty

Smell

: Characteristic

Boiling point/Initial boiling point

: Not determined

Flash point

: Not determined

Specific Gravity

: Not determined

Solubility

: Insoluble in water, soluble in organic solvent

#### Stability and reactivity SECTION 10:

Chemical stability

: Stable under normal storage conditions, ordinary temperature and

pressure.

Conditions to avoid

: Ultraviolet, heating

Hazardous decomposition products

: Generation of toxic gas like CO/NOX by combustion.

#### SECTION 11: Toxicological information

Toxicological information as production: No toxicological information as production.

Taxicological information of components:

l oxicological informatio	Acute toxicity	Acute toxicity	Acute toxicity	Acute toxicity
	(oral)	(dermal)	(gas)	(vapor)
Aluminum	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Photo-Sensitive Resin	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Photo-Sensitive Monomer	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Photo Initiator	Classification not possible	Classification not possible	Classification not possible	Classification not possible

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	Acute toxicity	Skin corrosion	Serious eye	Respiratory
	(dust, mist)	/irritation	damage/irritation	sensitization
	Classification	Classification	Classification	Classification
Aluminum	not possible	not possible	not possible	not possible
-	Classification	0-1	Classification	Classification
Photo-Sensitive Resin	not possible	Category 2	not possible	not possible
Photo-Sensitive	Classification	Classification	Classification	Classification
Monomer	not possible	not possible	not possible	not possible
Photo Initiator	Classification not possible	Category 2	Category 2B	Classification not possible

	Skin sensitization	Germ cell mutagenicity	Carcinogenicity	Toxic to reproduction
Aluminum	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Photo-Sensitive Resin	Category 1	Classification not possible	Classification not possible	Classification not possible
Photo-Sensitive Monomer	Category 1	Classification not possible	Classification not possible	Classification not possible
Photo Initiator	Classification not possible	Classification not possible	Classification not possible	Classification not possible

	Specific target organ toxicity (single exposure)	Specific target organ toxicity (repeated exposure)	Aspiration hazard
Aluminum	Classification not possible	Category 2 (Nervous system)	Classification not possible
Photo-Sensitive Resin	Classification not possible	Classification not possible	Classification not possible
Photo-Sensitive Monomer	Classification not possible	Classification not possible	Classification not possible
Photo Initiator	Classification not possible	Classification not possible	Classification not possible

# SECTION 12 : Ecological information

Ecological information as production:

Loological information as production.			
	Hazardous to the aquatic environment (acute)	Hazardous to the aquatic environment (long-term)	
Aluminum	Classification not possible	Category 4	
Photo-Sensitive Resin	Classification not possible	Classification not possible	
Photo-Sensitive Monomer	Classification not possible	Classification not possible	
Photo Initiator	Category 2	Category 2	

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#### SECTION 13: Disposal consideration

Entrust to waste disposers licensed from such prefectural governors or to local governments if they dispose. Do not release the drainage cleansing container, equipment or devise on the ground or to water ditches directory. Keep container tightly closed for contents not to outflow when toppling.

### SECTION 14: Transport information

Japan domestic regulations

UN number : N/A

Land regulatory information : Comply with transportation specified by the Fire Defense Law,

Industrial Safety and Health Law, or Poison Law.

Maritime regulatory information : Comply with transportation specified by Ship Safety Act.

Aviation regulatory information : Comply with transportation specified by Civil Aeronautics Act.

• Transport/Additional information : Not dangerous according to IMDG/IATA/ADR/AND.

### SECTION 15: Regulatory information

- Industrial Safety and Health Act:
- Fire Service Act; Fire Prevention Ordinan: Specified flammable material (flammable solid type)
- Law concerning Pollutant Release and Transfer Register (PRTR Law)
- \*Waste Management and Public Cleansing Act
- · Safety, health and environmental regulations/legislation specific for the substance or mixture.
  - : This product complies with Japanese regulations. Follow all regulations in your country.

#### SECTION 16: Other information

Descriptions in SAFETY DATA SHEET (SDS) are prepared based on materials, data or information currently available. The contents of SDS may change without notice according to revising laws and regulations and/or new knowledge. SDS is not safety warranty.

If used this product, take appropriate measures to actual condition on users' own responsibilities.