

First issue: May. 16, 2018

Revised: Apr. 5, 2023

Safety Data Sheet

1. IDENTIFICATION

Product Name: Silver Shimmer 620

General Use: May be used for printing on paper, textile, and film.

Product Description: Water based binder of resin.

SDS Number: A-0276A-02

MANUFACTURER

Company Name: Matsui Shikiso Chemical Co., Ltd.

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Telephone No.: +81 (75) 594-5612

AGENCY Matsui International Co., Inc.

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Telephone No.: (310) 767-7812

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2. HAZARDS IDENTIFICATION

CLASSIFICATION

Health Hazard: Not classified.

Physical Hazard: Not classified.

Signal Word: None.

Hazard Statement: None.

Symbol: None.

Precautionary Statements: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	CAS #	Approx. %
Resin	Trade secret	20-30
Aluminum	7429-90-5	< 20
Antioxidant	84133-50-6	< 5
Monoethanolamine	141-43-5	< 0.3
Non-hazardous and other ingredients below reportable levels	N/A	Balance

V.O.C. CONTENT: < 200 g/L

4. FIRST AID MEASURES

INHALATION:

If inhale a large quantity, remove to fresh air and lie quiet. Seek medical attention as needed.

EYE: Flush eyes with water for at least 15 minutes. Seek medical attention as needed.

SKIN: Wash with mild soap and water.

INGESTION:

Seek medical attention as needed.

PROTECTION TO FIRST-AIDERS:

Wear personal protective clothing and equipment.

NOTE TO PHYSICIAN:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Use water, dry chemical, foam, or CO₂ gas.

(This product is not combustible under normal conditions due to its aqueous property.)

UNSUITABLE EXTINGUISHING MEDIA

Not available.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Not available.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

In case of fire, wear respirator.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable personal protective equipment as needed.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

For small spill, absorb with dry sand, saw dust or rag, and collect into container for disposal.

Wipe the remaining up with rag.

For large spill, dike with soil, blankets or sandbags to prevent from contaminating soil and collect into container with shovel or vacuum.

Avoid releasing spilled material into rivers and/or lakes.

If material is released to public water, advice local authority.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Protective Measures:

Wear suitable protective equipment and clothing as needed to prevent the material from contacting skin and eyes. Use only in a well-ventilated area.

Advice on General Occupational Hygiene:

Wash thoroughly after handling. Do not eat, drink, or smoke during work.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical Measures Storage Conditions:

Store locked up in a well-ventilated, cool, and dark place away from direct sunlight.

Avoid freezing. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

<u>Monoethanolamine</u>	ACGIH – TLV (TWA)	3 ppm
	ACGIH – TLV (STEL)	6 ppm
	OSHA – PEL	3 ppm, 6 mg/m ³
<u>Aluminum</u>	ACGIH - TLV (TWA)	1 mg/m ³

EXPOSURE CONTROLS

Occupational Exposure Controls:

Local exhaust ventilation or general ventilation is recommended during indoor operation.

Personal Protection

Respiratory Protection:

If it is not a well-ventilated area, wear gas mask or self-contained breathing apparatus.

Hand Protection:

Wear rubber or plastic gloves.

Eye Protection:

Wear safety glasses or goggles.

Skin Protection:

Wear long pants, long sleeves, and boots when applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Silver paste
Odor:	Slight odor.
pH:	7.8 ± 0.5
Melting Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability:	Not available.
Explosive Properties:	Not available.
Oxidizing Properties:	Not available.
Vapor Pressure:	Not available.
Relative density:	Not available.
Solubility (Water):	Not available.
Partition Coefficient (n-octanol/water):	Not available.
Auto-Ignition Temperature:	Not applicable.
Decomposition Temperature:	Not available.
Viscosity:	Dynamic: 40,000 ± 10,000 mPa·s

10. STABILITY AND REACTIVITY

REACTIVITY:	No specific reactivity under normal condition.
CHEMICAL STABILITY:	Stable under normal handling and using condition.
POSSIBILITY OF HAZARDOUS REACTION:	None.
CONDITIONS TO AVOID:	None.
INCOMPATIBLE MATERIALS:	None.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Oral LD ₅₀ > 5,000 mg/kg (Calculation data)
Eye Irritation:	Not available.
Skin Irritation:	Not available.
Carcinogenicity:	Not applicable.
LOCAL EFFECT:	It may cause inflammation if it is attached to the skin for a long time or sensitive skin.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	Fish LC ₅₀ > 5,000 mg/L (Calculation data)
MOBILITY:	Not available.
PERSISTENCE AND BIODEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Not available.
OTHER ADVERSE EFFECTS:	Not available.

13. DISPOSAL INFORMATION

Comply with all federal, state and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT)

Hazardous Materials:	Not regulated.
Hazardous Materials Description and Proper Shipping Name:	Not regulated.
Hazard Class or Division:	Not regulated.
Identification Number:	Not regulated.
Packing Group:	Not regulated.
Label(s) Required:	Not regulated.

SEA TRANSPORT

IMDG

Class:	Not regulated.
Packing Group (PG):	Not regulated.
UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Marine Pollutant:	Not regulated.

AIR TRANSPORT

ICAO/IATA

Class:	Not regulated.
Packing Group (PG):	Not regulated.
UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.

15. REGULATORY INFORMATION

OSHA STATUS:

This product is not considered to be hazardous under 29 CFR 1910.1200.

TSCA STATUS:

All components on TSCA INVENTORY.

CA Prop. 65:

Not applicable.

CERCLA REPORTABLE QUANTITY (40 CFR 117, 302):

Not applicable.

SARA TITLE III

Section 302 (40 CFR 355) – Extremely hazardous substance:

Not applicable.

Section 311/312 (40 CFR 370) – Hazard categories:

Immediate (acute) health hazard	N
Delayed (chronic) health hazard	N
Fire hazard	N
Sudden release of pressure	N
Reactive	N

Section 313 (40 CFR 372) – Toxic chemical:

Aluminum

CONEG – Typical Metals present in ppm:

Cadmium (Cd)	N
Hexavalent Chromium (Cr(VI))	N
Lead (Pb)	N
Mercury (Hg)	N

HMIS Ratings

Health:	1
Flammability:	0
Reactivity:	0
Protection:	C

(0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe)

ENCS (Japan): Components listed.

Please refer to any other federal, state and local regulations.

For specific questions please call to Matsui International Co., Inc. USA 3107677812.

16. OTHER

ABBREVIATIONS

OSHA: The Occupational Safety and Health Administration

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists, Inc.

IMDG: International Maritime Dangerous Goods

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

TSCA: Toxic Substances Control Act

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act of 1980

SARA: Superfund Amendments and Reauthorization Act of 1986

CONEG: the Coalition of Northeastern Governors

ENCS: Existing and New Chemical Substances

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