

# Safety Data Sheet (SDS)

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Revised on	

## 1 Chemical Product Company Information

Name of the product **Art Resin LAME silver**  
 Manufacture's name ERUBERU CO.,LTD  
 Address 2-1-20 Ekimae Ibaraki Osaka Japan  
 JAPAN  
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## 2 Summary of hazardousness

The following GHS Category doesn't show any material that cannot be classified, that is out of scope of classification and is out of classification.

Dangerousness and Hazard Class	Category	Dangerousness and Hazard Information
Acute toxicity(oral)	Cannot be classified	
Acute toxicity(skin)	Cannot be classified	
Acute toxicity(inhalation of vapor)	Cannot be classified	
Skin corrosiveness and irritation	Cannot be classified	
Serious eye danger/eye irritation.	Cannot be classified	
Skin sensitization.	Cannot be classified	
Mutagenicity to reproductive cells	Cannot be classified	
Carcinogenicity	Cannot be classified	
Reproductive toxicity	Category 1	
Aquatic environmental toxicity(acute)	Cannot be classified	
Aquatic environmental toxicity(chronic)	Cannot be classified	

Pictures or symbols



Warning statements

Danger

Cautions

[Safety Cautions]  
 Obtain an MSDS of this product using it.

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Handle this product after reading cautions through and understanding it.  
Wear personal protective equipment where necessary.  
Avoid inhalation of mist.  
Use this product outdoor or at well-ventilated place.  
Avoid releasing of this product to the environment.

### [Emergency Measures]

Eye contact: Wash eyes with water carefully for several minutes. Take contact lenses off if possible and continue washing.

Inhalation: Move the patient under the fresh air take him/her a rest in a posture easy to breathe.

### [Storage]

Seal the vessel and place it at a well-ventilated place,

### [Disposal]

Hand the waste product and its vessel over to an industrial waste disposal service provider licensed by governor prefecture.

## 3 Composition and Information Ingredient

Single/Mixture	Mixture		
Chemical name	CAS No	Official Gazette Serial No	Content %
acrylate oligomer	—	—	20~40%
Thickening agent1	7631-86-9	(1)-548	1~10%
Thickening agent 2	—	—	0.1~1%
Phenoxydiethyleneglycol acrylate	61630-25-9	3-3684・10-344	0.1~10%
Tri cyclodecane dimethanol Acrylate	42594-17-2	4-1548	25~50%
dimethyl sulfoxide addition-agent (including initiating reagent ) 1	67-68-5	(2)-1553	0.1~10%
addition-agent (including initiating reagent)2	—	—	0.1~10%
addition-agent (including initiating reagent)3	—	—	0.1~10%
others1 (including pigment)	—	—	~0.1%
others2 (including pigment)	—	—	~0.1%

## 4 First-Aid Measures

Inhalation	Let the patient rest under fresh air. Get medical attention if any abnormality is observed.
Skin Contact	Wash this product away thoroughly with soap or skin washing agent. Get medical attention if any abnormality, such as dermatitis, is observed.

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Eye Contact	Flush eyes immediately with plenty of pure water for more than 15 minutes. Wash the back side of eye lids thoroughly as well. Get medical attention if any abnormality is observed.
Ingestion	Wash the mouth thoroughly, let the patient rest and immediately get medical attention. Never try to let him/her vomit if he/she isn't conscious.
Protection for First-Aid Providers	Wear protective gloves, protective goggles and other personal protective equipment not to get this product on clothes and/or hands.

### 5 Fire-Fighting Measures

Extinguishing media	Form, powder and carbon dioxide fire extinguishing agents and Water.
Prohibited media	
Particular hazardousness	A fire to this product could generate gas of irritating, toxic or corrosive nature .Heating could cause the vessel blown up.
Fire-fighting method	Wear appropriate personal protective equipment. Remove flammable from fire. Move the vessel from the fire or cool it down with water. Extinguish fire from the windward side. For extinguishing an early-stage fire, use powder and/or carbon dioxide fire extinguishers and/or dry sand. For a massive fire,it is effective to shut air out using a foam extinguishing agent.
Protection for firefighters	Use appropriate respirator and wear chemical-resistant protective garment to fight against fire.

### 6 Accidental Release Measures

Personal precautions	The source of release and its appropriate radius for the entire direction must be isolated. Keep the area out. Wear appropriate personal protective equipment. Get well ventilation if it is a closed area.
Environmental precautions	Avoid discharge of the released product into rivers to cause environmental impacts.
Collection and neutralization	Absorb the product to dry sands and soils, etc., and put them in a sealable vessel. Wipe off residual product with waste clothes, etc. and dispose them of as industrial wastes.
Prevention of secondary hazards	Remove all fire sources and hot object as well as combustible swiftly. Get a powder fire extinguisher ready to put a fire, if any.

### 7 Handling and storage

Technical Measures	Take measures as indicated in 8'.Expusure Controls/Personal Protection,
Local and General Exhaust Ventilations	Get local/general ventilations as indicated in'8.Exposure Controls/Personal Protection.
Precautions for Safe	Avoid inhalation mist and dusts of this product.

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Handling	Wash hands and face thoroughly and gargle after using this product. Wear protective gloves, protective garment, protective goggles, and protective mask. Avoid inhalation of smoke, gas, vapor and mist. Don't allow a person who has once suffered from allergy in the past using this product. Avoid releasing of this product to the environment.
Avoidance of Contact	See '10.Stability and reactivity.

### Storage

Specific Materials to be Avoided	Avoid contact with water, strong Oxidizers, strong acids and strong alkalis.
Technical Measures	Seal vessel tightly and store it in a well-ventilated place.

## 8 Exposure Controls/Personal protection

Controlled concentration	Not set
Allowable concentration	Not set
Facility Measures	Handle this product at a place where sealed devices, machines and/or local exhaustion system are installed. Install eye and body washers and/or hot object near the places where this product is handled. Ground transportation vehicle, taking and agitating systems.
Protective equipment	
Respiratory protection	Wear a gas mask(for organic gasses)
Hand protection	Wear oil-resistant (non-permeable) gloves.
Eye protection	Wear protective goggles.
Skin and body Protection	Wear long boots, an apron and a protective garment.
Hygiene measures	Wash hands and face thoroughly and gaggle after using this product. Don't take working contaminated with this product before reusing them.

## 9 Physical and Chemical Properties

Appearance	transparency ,viscous liquid
Oder	Slight special smell.
PH	Not data available
Boiling point ,	Not data available
Freezing point	
Initial boiling point and boiling range	Not data available
Flash point	Don't catch fire
Explosion range	Not data available
Vapor pressure	Not data available
Vapor density	Not data available
Specific gravity	1.1

## Art Resin LAME silver

Solubility Soluble to aromatic group, alcoholic and ketone solvent

### 10 Stability and Reactivity

Stability This product doesn't make dangerous reaction around the normal temperature if left alone.

Reactivity This product reacts with epoxy resin hardeners. (amines and acid anhydrides, etc.)This product makes a vigorous reaction with excessive hardeners and generates heat.

Conditions to be Avoided Excessive heating.

Materials to be Avoided Avoid contact with strong oxidizers, strong acids and strong alkalis.

Hazardous decomposition CO and NOx

### 11 Toxicological Information

Acute toxicity

Chemical name	Fatal dose
2-Phenoxyethyl Acrylate	LD50 (rat) 5190 mg/kg (oral) LD50 (rat) 1800 mg/kg (Skin)
Silica dioxide	LD50 (rat) 3160 mg/kg(oral) LD50 (rat) 2190 mg/kg(Skin)
Dimethyl sulfoxide	LD50 (rat) 14500mg/kg(oral)) LD50 (rat) 40000 mg/kg(Skin)
Tri cyclodecane dimethanol Acrylate	Not data available
Skin corrosiveness/irritation	Not data available
Serious eye danger/eye Irritation	Not data available
Respiratory organ sensitization	Not data available
Skin sensitization	(Local lymph node assay ; LLNA) : positive reaction
Mutagenicity	Not data available
Carcinogenicity	Not data available
Reproductive toxicity	Not data available.
Specification target internal organs/whole toxicity(Single dose)	Not data available
Specification target internal organs/whole toxicity(Repeated dose)	Not data available
Absorption respiratory organs toxicity	Not data available

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### 12. Ecological information

Ecological Toxicity	Handle this product with care as disposal and release of this product could cause impacts on the environment. A void direct release of this product on the ground, in rivers and ditches.
Aquatic environmental toxicity(acute)	Not data available
Aquatic environmental toxicity(chronic)	Not data available
Persistence and decomposition	Not data available
Bio magnification	Not data available

### 13 Disposal considerations

Residual wastes	Follow the instructions of Specially Controlled Industrial Waste Disposal Criteria. Follow the general cautions on handling hazardous liquid in addition to items listed in Handling and Storage. Dispose this product by handling it over to a qualified industrial waste disposal service provider. IN doing so, provide the provider with hazardousness and toxicity information on this product. IN disposing this product, check the safety thoroughly before mixing this product with other substances, as doing so could cause a chemical reaction and/or a fire.
Pollution container and packing	Vessels of this product should be recycle after washing them or be disposed in accordance with applicable laws and regulations and standard set by the local government. Remove the contains in the vessels totally be gore disposing them

### 14 Transport information

Confirm that this product doesn't leak out of its vessels and load vessels in a way not fall down, topple over and get damaged. Avoid collapsing of cargoes.

Land transportation	Follow the stipulation in the Fire Defense Law and industrial Safety and Health Act.
Marine transportation	Follow the stipulation in the Ship Safety Act.
Aviation transportation	Follow the stipulation in the Civil Aeronautics Act.
Regulation on transport and storage of dangerous materials	UN Code: not applicable
Emergency response Number	Not applicable
Marine pollution Prevention Law	Not applicable

## 15 Regulation Information

Fire defense law	Non-dangerous substances
Industrial safety and health act	Article57-2(Deliver of Document, etc.) : Silica dioxide
Poisonous and deleterious substances control act	Not applicable
Water pollution prevention act	Not applicable
PRTR	Not applicable
Others	

## 16 Other Information

References	Existing MSDS Recommendations by Japan Society of Occupational Health(2007) `Emergency Response Guideline' by Japan Chemical Industry Association. The data shown above are based on the information, documents and data that were available at the time this sheet was formed, but this sheet shouldn't be construed as providing any type of warranty and guarantee on this product. Handle this product with care.
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