



ArtCast™

Low Viscosity Resin For Shallow Casting

Safety and Data Sheet

SECTION 1: Identification of the substance and the company

1.1 Product Identifier

Product name

ArtCast™ - Low Viscosity Resin For Shallow Casting

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use

Shallow casting (up to 20mm) of small objects that require hardness.

1.3 Details of the supplier of the safety data sheet

Resin Play

37 Beach Road, #02-02

Singapore 189678

Phone: +65 8738 3404 (Mon, Wed-Sat | 10:30am-6:00pm)

Email: info@resinplay.sg

Website: www.resinplay.sg

1.4 Emergency telephone number

Phone: +65 8738 3404 (Mon, Wed-Sat | 10:30am-6:00pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture (GHS)

Skin corrosion/irritation, Category 2

Sensitization skin, Category 1

Serious eye damage/eye irritation, Category 2A

Specific target organ toxicity, single exposure; Respiratory tract irritation, Category 3

Hazardous to the aquatic environment, long-term hazard, Category 2

2.2 Label elements



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Hazard statements

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H411: Toxic to aquatic life with long lasting effects.

Signal word: Warning

Hazard pictograms: GHS07: Exclamation mark
GHS09: Environmental



Precautionary statements

- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264: Wash hands thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 3: Composition/Information on ingredients

3.2 Mixtures

Resin			
Substance name	Conc. (%)	CAS.	EC.
Epoxy resin	90	25068-38-6	500-033-5



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Modified defoamer	10	9006-65-9	618-433-4
Hardener			
Substance name	Conc. (%)	CAS.	EC.
Modified Amine	85	6334-25-4	613-204-5
Modified Polymer Antioxidants	15	183545-41-7	/

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Immediate medical attention is required. Show this safety data sheet (MSDS) to the doctor in attendance.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician if feeling uncomfortable.

Skin contact

Wash with soap and water. Consult a physician if feeling uncomfortable.

Inhalation

Move victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a physician immediately.

Ingestion



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If it is ingested, rinse the mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

SECTION 5: Fire-fighting measures

- 5.1 Special hazards arising from the substance or mixture
Not considered to be a fire hazard. Not easily ignited by fire.
- 5.2 Extinguishing media
Dry powder, Chemical foam, Carbon dioxide, water mist.
- 5.3 Advice for fire-fighters
As in any fire, wear self-contained breathing apparatus(MSHA/NIOSH approved or equivalent) and full protective gear. Extinguish fire in a safe distance with enough protection. Prevent fire extinguishing water from contaminating surface water or the ground water system.
- 5.4 Hazardous combustion products
No data available.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with eyes and skin.
Ensure adequate ventilation. Clear all fire sources.
Evacuate personnel to safe areas. Keep people away from upwind of spill/leak.
Wear appropriate protective measures (SEE SECTION 8).
- 6.2 Environmental precautions
Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.
- 6.3 Cleaning method



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Remove by liquid absorbing material (e.g. kieselguhr) . Adhered or collected material should be promptly disposed of. Disposal of discarded waste/pollutants refers to SECTION 13.

SECTION 7: Handling and storage

7.1 Handling notes

Keep away from fire and heat.
Avoid sun exposure.
Keep indoor ventilation or local exhaust device.
Handle lightly when handling to prevent damage to packaging and containers.
Equipped with corresponding varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

7.2 Storage notes

Keep away from fire and heat.
Store in a well-ventilated place. Keep cool.
The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.
Stored in compatible containers.
Keep storage containers sealed.
Do not store with incompatible material (see section 10.2)

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limit

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.2 Engineering control

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If



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these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.3 Respiratory protection

Wear a filter mask. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

8.4 Eyes Protection

Wear protective goggles in working time (Comply with the European Union EN 166 or The U.S. NIOSH standard). If in contact with eyes, flush with plenty of water. If you have discomfort, seek medical advice.

8.5 Hands Protection

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard. Wash with plenty of water if gloves puncture or skin exposure.

8.6 Sanitary Measure

Forbid smoking, eating and drinking in working places. Washing hands after handling products.

SECTION 9: Physical and chemical properties

Physical and chemical properties

Appearance

Physical state: Liquid

Colour: Clear

Odour: Odourless

pH value: ca5 (Resin); ca9 (Hardener)

Flammability: Non-flammable

Flash point (°C, Closed cup): >264-268°C

Boiling point (°C): > 230°C



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Freezing point (°C): < 0°F (-18°C)
Density (g/cm³): 1.14 (Resin); 0.95 (Hardener)
Relative steam density (air = 1): No data
Vapor pressure: <0.0000046 hPa (20°C)
Octanol/water partition coefficient: No data
Viscosity (mPa/s): 1000-2000 (Resin); 20-100 (Hardener)
Evaporation rate (kg/s): No data
UEL %(V/V): No data
LEL %(V/V): No data
Auto-ignition temperature: No data
Decomposition temperature: 320°C
Solubility: Insoluble in water

SECTION 10: Stability and reactivity

- 10.1 Stability
Stable under recommended storage and handling conditions (See section 7).
- 10.2 Material for avoiding
Strong oxide, acid and alkali.
- 10.3 Contact conditions for avoiding
High temperature.
- 10.4 Hazardous decomposition products
No data available.

SECTION 11: Toxicological information

- 11.1 Acute toxicity
No information found.
- Skin corrosion/irritation
Causes skin irritation.



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Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

May cause respiratory irritation.

Germ cell mutagenicity

No information found.

Carcinogenicity

No information found.

Reproductive toxicity

No information found.

STOT-single exposure

No information found.

STOT-repeated exposure

No information found.

Aspiration hazard

No information found.

SECTION 12: Ecological information

12.1 Ecotoxicity

According to the environmental protection laws, this product can't be poured into sewers or drainage ditches, can't be discarded in those places which would affect soil and underground water.

12.2 Persistence and degradability

No data available.



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- 12.3 Bioaccumulative potential
No data available.
- 12.4 Mobility in soil
No data available.
- 12.5 Other adverse effects
No data available.

SECTION 13: Disposal considerations

- 13.1 Handling method for waste
Handling waste according to the local regulations. Contact specific waste disposal company or companies recommended by local laws.
- 13.2 Handling method for uncleaned packaging
According to official regulations.

SECTION 14: Transport information

IMDG, ICAO/IATA, ADR/RID 14.1 UN NO.: Non-hazardous for transport
IMDG, ICAO/IATA, ADR/RID 14.2 Class: Non-hazardous for transport
IMDG, ICAO/IATA, ADR/RID 14.3 Packaging group: 55
IMDG, ICAO/IATA, ADR/RID 14.4 Technical name: Not classified
IMDG, ICAO/IATA, ADR/RID 14.5 Label: Non-hazardous for transport

Attention Notes: Not regulated under DOT, ADR, AND, IMDG, IATA



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SECTION 15: Regulatory information

This Safety Data Sheet (SDS) has been prepared in compliance with EU CLP Regulation (EC) No 1272/2008. This product is NOT considered to be a hazardous chemical under that standard.

Hazardous chemicals catalog: No list
International maritime dangerous goods code: No list
EU CLP Regulation (EC) No 1272/2008
In accordance with all local laws.

SECTION 16: Other information

Other information

- This product is considered food safe under the Food and Drug Administration regulation FDA 21CFR175.300, Register No. 10444519064.
- This product does not contain BPA (Bisphenol A).
- This product conforms to ASTM D4236.
- This product conforms to EN71.

Notice

To the best of our knowledge, the information contained herein is accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information and to comply with all laws and procedures applicable to the safe handling and use of the product. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.