



# Durasein

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

TRADE NAME  
DURASEIN 100% ACRYLIC SOLID SURFACE

PRODUCT #  
VERSION: 3.0/EN

PRINT DATE  
12/10/21

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier: Durasein® 100% Acrylic Solid Surface

##### Substances

Substance name: Acrylic Resin (PMMA + MMA) 38% CAS No.: 9011-14-7; 80-62-6

Index No:

EC No:

REACH Registration No:

Substance name: Aluminum Hydroxide 58% CAS No.: 21645-51-2

Index No:

EC No:

REACH Registration No:

Substance name: Titanium Dioxide 4% CAS No.: 13463-67-7

Index No:

EC No:

REACH Registration No:

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

Relevant identified uses:

Durasein 100% Acrylic Solid Surface is a non-reactive and chemically stable solid sheet material used for decorative surfacing in both vertical and horizontal applications. This product is classified as a Class A product under ASTM E84.

#### 1.3 Details of the supplier of the safety data sheet:

Name: Guangdong Relang New Material Technology Co., Ltd.

Address: Nanhua Road 2, Gaolan Port Fine Chemical Industrial Park Zhuhai, Guangdong, China 519050

Information contact: E-Mail (competent person) Cara Zhang [cara@durasein.com](mailto:cara@durasein.com).

1.4 Emergency Telephone Number: +1 866 509 6494

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture: Non-reactive and chemically stable

2.2 Label elements N/A

Labeling according to Regulation (EC) No 1272/2008 [CLP/GHS] N/A

Product identifier:

Substances:)

Index No

Authorization No

Mixtures:

MethaSol

Hazard[HAD18] components for labeling:

Substance 1

Authorization[HAD(19)] No

Hazard pictograms

Signal word:

Danger

2.3 Hazard statements: N/A

H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure

H360D May damage the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

2.4 Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection when performing fabrication processes such as sanding, cutting, and gluing

Supplemental Hazard information (EU): N/A

Special rules for supplemental label elements for certain mixtures: Additional labeling: N/A

### SECTION 3. Composition/information on ingredients

#### 3.1 Substances

Substance name: Acrylic Resin (PMMA + MMA) 38%  
CAS No.: 9011-14-7; 80-62-6  
Index No:  
EC No:  
REACH Registration No:

Substance name: Aluminum Hydroxide 58%  
CAS No.: 21645-51-2  
Index No:  
EC No:  
REACH Registration No:

Substance name: Titanium Dioxide 4% CAS No.: 13463-67-7  
Index No:  
EC No:  
REACH Registration No:

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General information:

Durasein 100% Acrylic Solid Surface is a non-reactive and chemically stable solid sheet material used for decorative surfacing in both vertical and horizontal applications. This product is classified as a Class A product under ASTM E84.

Following inhalation:

Durasein 100% Acrylic Solid Surface is sold as a solid sheet material therefore does not present an inhalation hazard. However, fabrication practices such as cutting and sanding may present a dust which may be an irritant to eyes, nose, and throat. For persistent irritation, seek medical attention.

Following skin contact:

Durasein 100% Acrylic Solid Surface is sold as a solid sheet material therefore does not present a skin contact hazard. However, fabrication practices such as cutting and sanding may present a dust which may be an irritant to skin. Cut or routed edges may be sharp enough to lacerate skin. For minor irritation, wash with soap and water. For persistent irritation, seek medical attention.

Following eye contact:

Durasein 100% Acrylic Solid Surface is sold as a solid sheet material therefore does not present an eye contact hazard. However, fabrication practices such as cutting and sanding may present a dust which may be an irritant to eyes. For minor irritation, flush eyes for minimum 15 minutes with water. For persistent irritation, seek medical attention.

Following ingestion:

Durasein 100% Acrylic Solid Surface is sold as a solid sheet material therefore does not present an ingestion hazard.

Self-protection of the first aider: N/A

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

Suitable extinguishing media:

Durasein 100% Acrylic Solid Surface is a non-reactive and chemically stable solid sheet material used for decorative surfacing in both vertical and horizontal applications. This product is classified as a Class A product under ASTM E84. Use fire fighting equipment and procedures appropriate for any surrounding environment.

### 5.2 Special hazards arising from the substance or mixture N/A

Hazardous combustion products: Carbon monoxide, carbon dioxide, and MMA vapor.

### 5.3 Advice for fire-fighters

Use fire fighting equipment and procedures appropriate for any surrounding environment.

Additional information:

Look at tests (i.e., flash point, E84 result, etc.)

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Durasein 100% Acrylic Solid Surface is a non-reactive and chemically stable solid sheet material used for decorative surfacing in both vertical and horizontal applications. This product is classified as a Class A product under ASTM E84.

For emergency responders  
Use fire fighting PPE and procedures appropriate for any surrounding environment.

- 6.2 Environmental precautions: N/A  
6.3 Methods and material for containment and cleaning up N/A

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Advice on safe handling Use standard safe material handling practices including proper PPE and lifting practices.

Fire preventions: Durasein Solid Surface is classified as Class A under ASTM E84.

Aerosol and dust generation preventions: Use appropriate dust collection systems to collect dust at the source. Optimize housekeeping practices to prevent the build up of dust. Avoid the use of compressed air as a method of cleaning surfaces.

Environmental precautions: N/A

- 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Use appropriate material handling equipment and procedures and store in a dry, well ventilated area. Be sure that any storage racks are design to adequately support the weight of the materials. Forklifts and other handling devices should also be rated to safely handle material throughout all operations.

Packaging materials: N/A 7.3  
Specific end uses: N/A

## SECTION 8: Exposure controls/personal protection

### 8.1.1 Occupational exposure limits:

Substance Name:

Methyl Methacrylate (Acrylic Resin) (CAS 80-62-6):

Dust from Fabrication

Exposure Limits :

OSHA PEL: TWA 100 ppm ACGIH TLV: TWA 50 ppm STEL 100 ppm

OSHA PEL: TWA 5 mg/m<sup>3</sup> (respirable) TWA 15 mg/m<sup>3</sup> (total)

### 8.1.2 Biological limit values: N/A

### 8.1.3 Exposure limits at intended use: None

## 8.2 Exposure[HAD50] controls

### 8.2.1 Appropriate engineering controls: Appropriate dust collection and ventilation systems to collect dust and vapors at the source.

### 8.2.2 Personal protective equipment:

Eye / Face protection:

Suitable eye protection: Safety glasses

Skin protection:

Hand protection: Wear gloves when handling and transporting sheet

Body protection: N/A

Other skin protection measures: N/A

Respiratory protection: Dust mask may be desirable if dust from production becomes too irritating. A respirator program is not necessary however if this is a desired control method, refer to OSHA Code of Regulations 29 CFR 1910.134

Thermal Hazards: None

8.2.3 Environmental exposure controls: N/A

## SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Durasein Solid Surface is a solid sheet material consisting of various colors, aesthetic patterns and dimensions.

|                                                  | VALUE            | CONCENTRATION | METHOD | TEMPERATURE | PRESSURE | REMARK |
|--------------------------------------------------|------------------|---------------|--------|-------------|----------|--------|
| pH[HAD59]                                        | N/A              |               |        |             |          |        |
| Melting point/freezing point                     | N/A              |               |        |             |          |        |
| Initial boiling point/boiling range              | N/A              |               |        |             |          |        |
| Flash point                                      | N/A              |               |        |             |          |        |
| Evaporation rate                                 | N/A              |               |        |             |          |        |
| Flammability (solid, gas)                        | N/A              |               |        |             |          |        |
| Upper/lower flammability or explosive limits     | N/A              |               |        |             |          |        |
| Surface Burning                                  | N/A              |               |        |             |          |        |
| Upper explosive limits                           | N/A              |               |        |             |          |        |
| Lower explosive limits                           | N/A              |               |        |             |          |        |
| Vapor pressure[HAD60]                            | N/A              |               |        |             |          |        |
| Vapor density[HAD61]                             | N/A              |               |        |             |          |        |
| Relative[HAD62] density                          | 1.72 9<br>g/c m3 |               |        |             |          |        |
| Solubility(ies)                                  | Insoluble        |               |        |             |          |        |
| Partition coefficient[HAD63]:<br>n-octanol/water | N/A              |               |        |             |          |        |
| Auto-ignition temperature                        | N/A              |               |        |             |          |        |
| Decomposition temperature                        | N/A              |               |        |             |          |        |

|                             | VALUE | CONCENTRATION | METHOD | TEMPERATURE | PRESSURE | REMARK |
|-----------------------------|-------|---------------|--------|-------------|----------|--------|
| Viscosity                   | N/A   |               |        |             |          |        |
| Viscosity[HAD64], dynamic   |       |               |        |             |          |        |
| Viscosity[HAD65], cinematic |       |               |        |             |          |        |
| Explosive properties        | N/A   |               |        |             |          |        |
| Oxidizing properties        | N/A   |               |        |             |          |        |

## 9.2 Other information:

Physical hazards: None

## SECTION 10: Stability and reactivity

- 10.1 Reactivity Durasein 100% Acrylic Solid Surface is a non-reactive and chemically stable solid sheet material.
- 10.2 Chemical stability Durasein 100% Acrylic Solid Surface is a non-reactive and chemically stable solid sheet material.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Durasein 100% Acrylic Solid Surface is a non-reactive and chemically stable solid sheet material that is non-toxic.

#### 11.1.1 Substances

Acute toxicity: None

Skin corrosion/irritation: None

Eye damage/irritation: Safety glasses should be worn during fabrication and installation processes.

Sensitization to the respiratory tract/skin: Standard fabrication and installation processes may generate dust which may be irritating.

## SECTION 12: Ecological information

### 12.1 Toxicity:

Durasein 100% Acrylic Solid Surface is a non-reactive and chemically stable solid sheet material that is non-toxic.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product / Packaging disposal: Durasein 100% Acrylic Solid Surface is not listed as a hazardous material or waste. Disposal can occur in accordance with local, state, and federal regulations.

## SECTION 14: Transport information

|                                     | LAND<br>TRANSPORT<br>(ADR/RID) | INLAND WATERWAY<br>TRANSPORT (ADN) | SEA TRANSPORT<br>(IMDG) | AIR TRANSPORT<br>(ICAO-TI/<br>IAT A-DGR) |
|-------------------------------------|--------------------------------|------------------------------------|-------------------------|------------------------------------------|
| 14.1 UN[HA78] No.                   | N/A                            | N/A                                | N/A                     | N/A                                      |
| 14.2 UN Proper[HA79] Shipping Name  | N/A                            | N/A                                | N/A                     | N/A                                      |
| 14.3 Transport[HA80] Hazard Classes | N/A                            | N/A                                | N/A                     | N/A                                      |
| Hazard Labels                       | N/A                            | N/A                                | N/A                     | N/A                                      |
| 14.4 Packing[HA81] group            | N/A                            | N/A                                | N/A                     | N/A                                      |
| 14.5 Environmental Hazards          | N/A                            | N/A                                | N/A                     | N/A                                      |

### 14.6 Special precautions for user N/A

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Durasein 100% Acrylic Solid Surface is not listed as a hazardous material therefore does not require special regulations.

- 15.2 Chemical Safety Assessment:  
For this material a chemical safety assessment is not required.

## **SECTION 16: Other information**

- 16.1 Indication of changes
- 16.7 Further information:  
This SDS has been prepared by the Relang International Technical Service Division.