

# Safety Data Sheet

According to Regulation (EC) No.1907/2006&(EC) No.1272/2008

## ESD95 Black Resin

SDS Version: 1.0

SDS No.ESD2026011901-01-EU

Creation Date: 2026/01/19    Revision Date: 2026/01/19

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

#### **1.1 Product Identifier**

|                                |                                      |
|--------------------------------|--------------------------------------|
| Trade name:                    | ESD95 Black Resin                    |
| Product model:                 | ESD95                                |
| Additional identification:     | Nanoform is NOT covered by this SDS. |
| Identification of the product: | Not available                        |
| Uses advised against:          | Not available                        |
| Unique formula identifier:     | Not available                        |

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

|                  |                               |
|------------------|-------------------------------|
| Identified uses: | Resin for use in 3D Printing. |
|------------------|-------------------------------|

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

|                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| Company:               | GUANGZHOU HEYGEARS IMC.INC                                                                       |
| Registered    Address: | Block B2, 501, 601 Enterprise Accelerator, Kaifa District<br>Guangzhou, Guangdong, 510700, China |
| Production Address:    | Room 201-1, No.25 Yayingshi Road, Huangpu District,<br>Guangzhou, Guangdong, 510700, China       |
| E-mail:                | mqu@heygears.com                                                                                 |
| Telephone:             | +86 020 28186347<br>Monday to Friday, 9am-5pm (Standard time zone:<br>UTC/GMT +8 hours).         |

#### **1.4 Emergency telephone number**

|                  |                  |
|------------------|------------------|
| Emergency Phone: | +86 020 28186347 |
|------------------|------------------|

### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

|               |      |
|---------------|------|
| Acute Tox. 4  | H302 |
| Skin Irrit. 2 | H315 |
| Skin Sens. 1  | H317 |
| Eye Irrit. 2  | H319 |
| STOT SE 3     | H335 |

## 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)

|      |                                      |
|------|--------------------------------------|
| H302 | Harmful if swallowed.                |
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation.       |
| H335 | May cause respiratory irritation.    |

Precautionary statement(s)

|           |                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------|
| P201      | Obtain special instructions before use.                                                          |
| P202      | Do not handle until all safety precautions have been read and understood.                        |
| P261      | Avoid breathing dust/fume/gas/mist/vapours/spray.                                                |
| P264      | Wash hand thoroughly after handling.                                                             |
| P270      | Do not eat, drink or smoke when using this product.                                              |
| 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.                       |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.                       |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water.                                                  |
| P308+P313 | IF exposed or concerned: Get medical advice/attention.                                           |

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P332+P313      | If skin irritation occurs: Get medical advice/attention.                                                                         |
| P362           | Take off contaminated clothing and wash before reuse.                                                                            |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.                                                                 |
| P405           | Store locked up.                                                                                                                 |
| P501           | Dispose of contents/container in according with local regulation.                                                                |

Supplemental Hazard Statements: None

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

| CAS No.    | EC No.    | Component                       | Classification                                                                                    | Concentration |
|------------|-----------|---------------------------------|---------------------------------------------------------------------------------------------------|---------------|
| 5117-12-4  | 418-140-1 | 4-(1-oxo-2-propenyl)-morpholine | Acute Tox. 4 H302<br>Eye Dam. 2 H319<br>Skin Sens. 1 H317<br>Skin Irrit. 2 H315<br>STOT SE 3 H335 | 25-50%        |
| 68987-79-1 | 848-035-8 | Urethane acrylate resin         | /                                                                                                 | 45-60%        |

## **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| In case of inhalation:   | Remove from exposure site to fresh air and keep at rest. Obtain medical advice.                            |
| In case of skin contact: | Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist. |
| In case of eyes contact: | Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.               |
| In case of ingestion:    | Rinse mouth with water and obtain medical advice.                                                          |

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed

Not available.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media: Carbon dioxide, dry chemical, foam.

Unsuitable extinguishing media: Do not use a direct water jet on burning material.

### **5.2 Special hazards arising from the substance or mixture**

Carbon monoxide and unidentified organic compounds may be formed during combustion.

### **5.3 Advice for fighters**

Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals.

Use water spray to cool containers exposed to fire.

## **SECTION 6:Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

### **6.2 Environmental precautions**

Keep away from drains, surface- and groundwater and soil.

### **6.3 Methods and materials for containment and cleaning up**

Clean up spillage promptly. Provide adequate ventilation. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

### **6.4 Reference to other sections**

For disposal see section 13.

## **SECTION 7:Handling and storage**

### **7.1 Precautions for safe handling**

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, ventilated area away from heat sources. Keep container tightly closed when not in use.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **SECTION 8:Exposure controls/personal protection**

### **8.1 Control parameters**

|                                                         |                   |
|---------------------------------------------------------|-------------------|
| Occupational exposure limits:                           | No data available |
| Additional exposure limits under the conditions of use: | No data available |

### **8.2 Exposure controls**

#### **8.2 .1 Appropriate engineering controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

#### **8.2.2 Individual protection measures**

|                         |                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection:    | Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.                                                                                                                                                                        |
| Hand protection:        | Use chemically resistant gloves.                                                                                                                                                                                                                                              |
| Body protection:        | Wear suitable protective clothing to prevent skin exposure.                                                                                                                                                                                                                   |
| Respiratory protection: | No respiratory protection is required during normal operations in a workplace. If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used. |
| Thermal hazards:        | Not available.                                                                                                                                                                                                                                                                |

#### **8.2.3 Environmental exposure controls**

Avoid discharge into the environment.

## **SECTION 9:Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

|                                                           |                |
|-----------------------------------------------------------|----------------|
| Physical state:                                           | Liquid         |
| Colour:                                                   | Black          |
| Odour:                                                    | Fragrance like |
| Melting point/freezing point:                             | Not available  |
| Boiling point or initial boiling point and boiling range: | Not available  |
| Flammability:                                             | Not available  |
| Lower and upper explosion limit/flammability limit:       | Not available  |
| Flash point:                                              | > 105 °C       |
| Auto-ignition temperature:                                | Not available  |
| Decomposition temperature:                                | Not available  |
| pH :                                                      | Not available  |
| Kinematic viscosity (mm <sup>2</sup> /s) :                | Not available  |
| Solubility:                                               | Not available  |

|                                                     |                                 |
|-----------------------------------------------------|---------------------------------|
| Partition coefficient: n-octanol/water (log value): | Not available                   |
| Vapour pressure:                                    | Not available                   |
| Density and/or relative density:                    | 1.0-1.5g/cm <sup>3</sup> (25°C) |
| Relative vapour density:                            | Not available                   |
| Particle characteristics:                           | Not available                   |
| Viscosity, dynamic (mPa.s):                         | 400-500 (25°C)                  |

## 9.2 Other information

Not available

## **SECTION 10: Stability and reactivity**

Reactivity:

The substance is stable under normal storage and handling conditions.

Chemical stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to avoid :

Direct sources of heat.

Incompatible materials:

Strong acids, alkali or oxidizing agents.

Hazardous decomposition products:

Carbon monoxide and unidentified organic compounds may be formed during combustion.

## **SECTION 11: Toxicological information**

### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Non-human toxicological data: No data available

Acute toxicity:

LD50(Oral, Rat): No data available

LD50(Dermal, Rat): No data available

LC50(Inhalation, Rat): No data available

Skin corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: May cause an allergic skin reaction.

|                          |                   |
|--------------------------|-------------------|
| Germ cell mutagenicity:  | No data available |
| Carcinogenicity:         | No data available |
| Reproductive toxicity:   | No data available |
| STOT- single exposure:   | No data available |
| STOT- repeated exposure: | No data available |
| Aspiration hazard:       | No data available |

## **11.2 Information on other hazards**

Endocrine disrupting properties:

The mixture does not contain endocrine disruptor.

## **SECTION 12: Ecological information**

### **12.1 toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Endocrine disrupting properties**

The mixture does not contain endocrine disruptor.

### **12.7 Other adverse effects**

No data available

## **SECTION 13: Disposal considerations**

Waste treatment methods:

Due to the high risk of contamination recycling/recovery is not recommended.

According to local regulations. Emptied container might retain product residues.

Follow all warnings even after the container is emptied.

## **SECTION 14:Transport information**

### **14.1 UN number**

|                           |               |
|---------------------------|---------------|
| Land transport (ADR/RID): | Not regulated |
| Sea transport(IMDG):      | Not regulated |
| Air transport(ICA0/IATA): | Not regulated |

### **14.2 UN proper shipping name**

Not regulated

### **14.3 Transport hazard class(es)**

Not dangerous goods.

### **14.4 Packing group**

Not available

### **14.5 Environmental hazards(e.g.: Marine pollutant (Yes/No))**

NO

### **14.6 Special precautions for user**

Not regulated

### **14.7 Transport in bulk according to IMO instruments**

Not regulated

## **SECTION 15:Regulatory information**

### **15.1 Safety, health and environmental regulations specific for the product in question.**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## **SECTION 16:Other information**

Full text of H-Statements referred to under sections 2 and 3.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

**Disclaimer:**

The information in this SDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This SDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this SDS must make independent judgments on the applicability of this SDS. The authors of this SDS will not be held responsible for any harm caused by the use of this SDS.