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# Material Safety Data Sheet

POLYKLEAR IS-BR25 SILICONE RUBBER

## Section 1 - Identification of the substance/preparation and of the company/undertaking

### 1.1 Product identifier

**Product name:** POLYKLEAR IS-BR25 SILICONE RUBBER**Item No.:** IS-CR05, IS-CR10, IS-CR15, IS-CR20, IS-CR25, IS-CR30, IS-CR35, IS-CR40, IS-HCR05, IS-HCR10, IS-HCR15, IS-HCR20, IS-HCR25, IS-HCR30, IS-HCR35, IS-HCR40, IS-HCR50, IS-HCR60, IS-HCR70, IS-ECR15

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

**Relevant identified uses:** Mold making**Uses advised against:** Not available.

## Section 2 - Hazards Identification

### 2.1. Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified as dangerous goods.

### 2.2. Label elements

Not available.

### 2.3. Other hazards

**Burn & Burst danger:** This product is not flammable.**Human health and environment:** Liquid silicon rubber is harmless to human health and the environment.

## Section 3-Composition/Information on Ingredient

### 3.1. Mixtures

Ingredient	CAS No.	Weight (%)
Dimethyl siloxane	63148-62-9	35
Silicone dioxide powder	14808-60-7	35
Polydimethylsiloxane	68083-19-2	30

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## Section 4 - First Aid Measures

### 4.1. Description of first aid measures

**General notes:** First aid is not generally necessary for normal use.

#### ■ Inhalation

Remove from exposure and move to fresh air immediately. Get medical aid.

#### ■ Skin contact

If cause skin irritation, wash with water and soap. Get medical aid.

#### ■ Eye contact

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

#### ■ Ingestion

Rinse mouth and spit the liquid. Call a physician if you feel unwell.

## Section 5 – Fire Fighting Measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Use extinguishers suitable for surroundings.

### 5.2. Special hazards arising from the mixture

**Burn & Burst danger:** This product is not flammable.

**Hazardous combustion products:** Carbon monoxide, carbon dioxide.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Put the fire out in upwind direction.

Shut off sources of ignition.

## Section 6 – Accidental Release Measures

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

**Emergency procedures:** Evacuate personnel to safe areas.

**Protective equipment:** Wear hand protection and body protection.

### 6.2. Environmental precautions

Low hazard to waters. Inform the responsible authorities when very large quantities get into water, drainage, sewer, or the ground.

### 6.3. Methods and material for containment and cleaning up

Absorb or cover spillage with sand or incombustible material. Or clean with plenty of water and let out the diluted solution into the wastewater system.

### 6.4. Reference to section 8 and section 13.

## Section 7 – Handling and Storage

### 7.1. Precautions for safe handling

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Containers have to be labeled clearly and permanently.  
Do not leave container open.  
Store in the original container as much as possible.  
Preventing leaks is one of the major issues, as liquid molding compounds can seep through gaps in the machine and impede operations.

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

Keep container tightly sealed in a dry, cool and well-ventilated place.  
Do not let impurities such as water, acids and alkalis enter into the container.  
Avoid direct sunlight.  
Storage period is 10 months.

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## **Section 8 - Exposure Controls, Personal Protection**

### **8.1. Control parameters**

Not established.

### **8.2. Exposure controls**

#### **8.2.1 Appropriate engineering controls**

Prevent leaks. Well ventilated.

#### **8.2.2 Personal Protection**

Gloves

#### **8.2.3 Other Protective Clothing or Equipment**

Not necessary under conditions of normal use.

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## **Section 9 - Physical and Chemical Properties**

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

**Form:** Thick liquid.

**Solubility in water:** Insoluble

## **Section 10 - Stability and Reactivity**

### **10.1. Chemical stability**

The mixture is considered stable.

### **10.2. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

### **10.3. Conditions to avoid**

Direct sunlight.

### **10.4. Incompatible materials**

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Acids, alkalis, oxidizing agents.

## **Section 11 - Toxicological Information**

### **11.1. Information on toxicological effects**

**Acute toxicity:** None

**Serious eye damage/irritation:** May cause slight eye irritation.

**Respiratory or skin sensitisation:** None.

**Germ cell mutagenicity:** None

**Carcinogenicity:** None

## **Section 12 - Ecological Information**

### **12.1. Toxicity**

None

### **12.2. Persistence and degradability**

None

### **12.3. Bioaccumulative potential**

None

### **12.4. Mobility in soil**

None

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

None

### **12.6. Other adverse effects**

Low hazard to waters.

## **Section 13 - Disposal Considerations**

Reduce the release of the mixture to the environment, such as avoiding spills or keeping away from drains.

Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

## **Section 14 - Transport Information**

Not regulated for transport of dangerous goods: UN, IATA, IMDG.

## **Section 15 - Regulatory Information**

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

## **Section 16 - Other Information**

The above information is based on the data of which we are aware and is believed to be correct

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of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results As of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

**APPENDIX 1: Glossary / List of acronyms****LIST OF ACRONYMS**

CLP	Classification Labeling Packaging Regulation (EC) No 1272/2008
CAS No.	Chemical Abstracts Service number
UN	United Nations
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

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# TECHNICAL DATASHEET

## POLYKLEAR IS-BR25 SILICONE RUBBER

### Description

POLYKLEAR IS-BR25 SILICONE RUBBER Series represent POLYKLEAR's brushing type condensation silicone rubber for molding. BR25 is similar with RTV585 and RTV586. It has exceptional working properties and library life. POLYKLEAR IS-BR25 SILICONE RUBBER Series offer different grades in hardness, viscosity, tear and tensile strength for different applications.

### Key features

- ★ Reproduce fine details for any sizes of products
- ★ Proper and customized viscosity for brushing molds
- ★ Mostly use for brushing purpose or casting for large size of products
- ★ Excellent tear and tensile strength, good elongation
- ★ Ideal molding material for casting, optimal material to replace PU molds
- ★ Maximize your duplication times

### Applications

POLYKLEAR IS-BR Series are suitable for a variety of industrial and art related applications including making molds to reproduce prototypes, furniture, sculpture, concrete, plaster, gypsum fiber glass, wax/candle crafts, toys, soap, artificial stones, cement decoration, GRC, GRG and also food product items, where high temperature resistance, food grade are not required.

### Optional Accessories

Silicone Pigment | Thinner | Mixer Machine | Vacuum Machine

Physical Properties Test @25°C	IS-BR25
Hardness (Shore A)	24~25
Mixing ration (by weight)	100A:2~4B
Color	White
Mixed Viscosity (cps)	35,000~36,000
Working time (Mins)	22"(Blue) 46"(Clear)
De-mold time (Hrs)	4~8
Tear Strength (KN/m)	≥28
Tensile Strength (Mpa)	≥3.9
Elongation (%)	550~580

### Packing

25KG/Pail

### Storage & shelf-life

12 months, stored in a dry & cool place under temperature 25 °C, with seal

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