

According to directive 1907/2006/EC, 2020/878

Page 1 of 8

Version 13.0

Revision date: 20-12-2023

Print date: 10-4-2024

Trade name: Investment Casting Powder – SRS Artcast

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

### **1.1 Product Identification:**

Product name:	Investment Casting Powder – SRS Artcast
REACH Registration No:	Exempted in accordance with Annex V.7
Synonyms:	Not applicable
Trade Names:	Classic, Stonecast (White/ Blue), Brasscast, Eurovest, Artcast, Cobra, Sculpture, Global, Silk, Cadcast, Silk Pro, 116, 117, Silk Neo

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

Main Applications (non-exhaustive list):	Casting of Jewelry and Industrial products.
No uses advised against:	

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

Responsible distributor :	ASSYST bvba / A.S.O.W. bvba Hellegatstraat 13a 2590 Berlaar Belgium Tel: +32 495 50 61 14 / +32 496 83 70 27 Website: <a href="http://www.assyst.org">www.assyst.org</a> / <a href="http://www.artsuppliesonweb.com">www.artsuppliesonweb.com</a> Email: <a href="mailto:ao@assyst.org">ao@assyst.org</a> / <a href="mailto:vera.opsommer@assyst.org">vera.opsommer@assyst.org</a>
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### **1.4 Emergency Phone Number:**

For Belgium:	Call the <b>Poison Control Center (070 245 245 - free)</b> , if not available: <b>02 264 96 30</b> (normal rate) or your doctor. In life-threatening situations, always call the European emergency number <b>112</b> .
NHS 24 Direct	For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. <b>For urgent medical help</b> , use the NHS 111 online service, or <b>call 111</b> if you are unable to get help online. <b>For life-threatening emergencies, call 999</b> for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### **2.1 Classification of the substance or mixture:**

This product contains respirable crystalline silica (RCS).

The quantity of RCS powder that is composed of particle sizes of less than 10 µm is less than 10% therefore making this product a STOT RE 2 according to criteria defined in the regulation EC 1272/2008 and harmful according to criteria defined in Directive 67/548/EEC due to the potential for generation of airborne respirable crystalline.

Airborne respirable crystalline silica may be generated during the handling and use of the product.

Prolonged inhalation of high levels of respirable crystalline silica dust has been shown to cause silicosis, a nodular pulmonary fibrosis.

Workplace exposure to respirable crystalline silica dust should be monitored and controlled.

**Classification according to Directive (EC) No 1272/2008 and its amendments.**

Specific Target Organ Toxicant- STOT RE 2—This product contains less than 10% respirable crystalline silica.

H373: May cause damage to lungs through prolonged or repeated exposure via Inhalation.

### **2.2 Label elements:**

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:** Not applicable.



**Hazard pictograms:**

According to directive 1907/2006/EC, 2020/878  
Version 13.0 Revision date: 20-12-2023  
Trade name: Investment Casting Powder – SRS Artcast

Page 1 of 8  
Print date: 10-4-2024

**Signal word:** Warning

**Hazard statements:**

H373: May cause damage to lungs through prolonged or repeated exposure via inhalation.

**Precautionary Statements:**

P260: Do not breathe dust.

P284: Wear respiratory protection.

P501: Dispose of contents/containers in accordance with local regulations.

**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.

**Ecological information:**

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

**Toxicological information:**

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

**SECTION 3: Composition and information on ingredients**

**3.2 Mixtures:**

**Description:**

Mixture of the following substances with non-hazardous additives.

Chemical name	CAS No. EINECS No. Index No. REACH registration number	Classification	Weight (%)
Quartz	14808-60-7 238-878-4 - -	-	20 – 60
Cristobalite	14464-46-1 238-455-4 - -	STOT RE 2, H373	20 – 50
Gypsum	7778-18-9 231-900-3 - -		20 - 30

**Impurities:**

Contains between 1 and 10% of respirable crystalline silica and is classified as STOT RE 2.  
For further explanation of abbreviations and hazard statements, see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures:**

**Eye Contact:**

Rinse thoroughly with plenty of water for at least 15 minutes.

If irritation persists seek medical advice.

**Inhalation:**

Move exposed person to fresh air immediately and seek medical advice.

**Ingestion:**

No first aid measures required.

**Skin Contact:**

No first aid measures required.

**4.2 Most important symptoms and effects, both acute and delayed:**

According to directive 1907/2006/EC, 2020/878  
Version 13.0 Revision date: 20-12-2023  
Trade name: Investment Casting Powder – SRS Artcast

Page 1 of 8  
Print date: 10-4-2024

No acute and delayed symptoms and effects are observed.

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

No specific actions are required.

**SECTION 5: Fire-fighting measures**

5.1 Extinguishing media:

**Suitable extinguishing media:**

No specific extinguishing media is needed.

**Unsuitable extinguishing media:**

Do not use direct water jets on the burning product; they may cause splashing and spread the fire.

5.2 Special hazards arising from the substance or mixture:

Non-combustible.

No hazardous thermal decomposition.

5.3 Advice for firefighters:

No specific firefighting protection is required.

**SECTION 6: Accidental release measures for the substance or mixture**

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid airborne dust generation, wear personal protective equipment in compliance with national legislation.

6.2 Environmental precautions:

No special requirements.

6.3 Methods and material for containment and cleaning up:

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation (see section 8.2.2 for specific details).

6.4 Reference to other sections:

See sections 8 and 13.

**SECTION 7: Handling and storage:**

7.1 Precautions for safe handling

Avoid airborne dust generation.

Provide appropriate ventilation at places where airborne dust is generated.

In case of insufficient ventilation, (10-15 air changes per hour recommended) wear suitable respiratory protective equipment (see section 8.2.2 for specific details).

Where 10-15 air changes per hour is not achieved, suitable local exhaust ventilation is recommended.

Handle packaged products carefully to prevent accidental bursting.

If you require advice on safe handling techniques, please contact your supplier or check the good practice guide referred to in section 16.

7.2 Conditions for safe storage, including any incompatibilities:

Minimise airborne dust generation and prevent wind dispersal during loading and unloading.

Keep containers closed and store packaged products so as to prevent accidental bursting.

7.3 Specific end use:

If you require advice on specific uses, please contact your supplier or check the good practice guide referred to in section 16.

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

8.1 Control parameters:

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust).

The WEL (Workplace Exposure Limit) for respirable crystalline dust is 0.1 mg/m<sup>-3</sup> in the UK, measured as an 8 hour TWA (Time Weighted Average).

For the equivalent limits in other countries consult your local regulatory authority.

According to directive 1907/2006/EC, 2020/878

Version 13.0

Revision date: 20-12-2023

Page 1 of 8

Print date: 10-4-2024

Trade name: Investment Casting Powder – SRS Artcast

## 8.2 Exposure controls:

### **Appropriate engineering controls:**

Minimise airborne dust generation.

Use process enclosures, local exhaust ventilation or other engineering control methods to keep airborne levels below the specified exposure limits.

If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit.

Apply organisational measures, e.g. by isolating personal from dusty areas.

Wash hands before breaks and at the end of the day.

Remove and wash soiled clothing.

### **Individual protection measures such as personal protective equipment**

#### **Eye / face protection:**

Safety goggles to protect the eyes against dust ingress. Conforms to EN 166.1.B.3.4.9

#### **Skin protection:**

No specific requirement.

#### **Hand protection:**

Wash hands at the end of each work session.

Use barrier cream / pre work cream.

No specific protective gloves required, however natural rubber/ latex gloves or equivalent are advised.

#### **Respiratory protection:**

In case of prolonged exposure to airborne dust concentrations, wear respiratory equipment (e.g. respirator, powered air respirator) of FFP3 or APF 40 standards or equivalent.

#### **Environmental exposure controls:**

Avoid wind dispersal.

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

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

Physical state / colour:	Fine powder
Colour:	White powder
Odour:	Odourless
Odour threshold:	No components are considered hazardous.
pH:	7-8
Melting point/ freezing point:	No components are considered hazardous.
Initial Boiling point:	No components are considered hazardous.
Flash point:	No components are considered hazardous.
Evaporation rate:	No components are considered hazardous.
Flammability:	No components are considered hazardous.
Upper/ lower flammability exposure limit:	No components are considered hazardous.
Vapour pressure:	No components are considered hazardous.
Relative Vapour density:	No components are considered hazardous.
Relative density:	No components are considered hazardous.
Solubility:	Non soluble
Partition coefficient:	No components are considered hazardous.
Auto ignition temperature:	No components are considered hazardous.
Decomposition temperature:	No components are considered hazardous.
Kinematic Viscosity:	No components are considered hazardous.
Explosive Properties:	No components are considered hazardous.
Oxidising properties:	No components are considered hazardous.
Particle characteristics:	Not nanoform characteristics

### 9.2 Other information

No further information available.

According to directive 1907/2006/EC, 2020/878  
Version 13.0 Revision date: 20-12-2023  
Trade name: Investment Casting Powder – SRS Artcast

Page 1 of 8  
Print date: 10-4-2024

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

### **10.1 Reactivity:**

No data available.

### **10.2 Chemical Stability:**

Chemically stable.

### **10.3 Potential Hazardous Reactions:**

No hazardous reactions.

### **10.4 Conditions to Avoid:**

No data available.

### **10.5 Chemically Interacting Materials:**

No data available.

### **10.6 Hazardous Decomposition Products:**

No data available.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects:**

#### **Acute toxicity:**

Based on available data, the classification is not met.

#### **Skin corrosion/irritation:**

Based on available data, the classification is not met.

#### **Serious eye damage/irritation:**

Based on available data, the classification is not met.

#### **Respiratory or skin sensation:**

Based on available data, the classification is not met.

#### **Germ cell mutagenicity:**

Based on available data, the classification is not met.

#### **Carcinogenicity:**

Based on available data, the classification is not met.

#### **Reproductive toxicity:**

Based on available data, the classification is not met.

#### **STOT-single exposure:**

Based on available data, the classification is not met.

#### **STOT-repeated exposure:**

This product contains respirable Cristobalite and respirable quartz as an impurity and is classified as STOT RE 2 according to criteria defined in the Regulation EC 1272/2008.

Prolonged inhalation of high levels of respirable crystalline silica dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles.

#### **Aspiration hazard:**

Based on available data, the classification is not met.

### **11.2 Information on other hazards**

#### **Hormone-disrupting properties**

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

## **SECTION 12: Ecological information**

### **12.1 Toxicity:**

No data available.

### **12.2 Persistence and Degradability:**

No data available.

### **12.3 Bioaccumulation:**

No data available.

According to directive 1907/2006/EC, 2020/878  
Version 13.0 Revision date: 20-12-2023  
Trade name: Investment Casting Powder – SRS Artcast

Page 1 of 8  
Print date: 10-4-2024

#### 12.4 Mobility in Soil:

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.

#### 12.6 Hormone-disrupting properties

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

#### 12.7 Other Harmful Effects:

No specific adverse effects known.

### **SECTION 13: Instructions for disposal**

#### 13.1 Waste treatment methods:

##### **Product:**

Where possible, recycling is preferable to disposal.  
This should be carried out in compliance with local regulations.

##### **Packaging:**

Dust generation from residues in packaging should be avoided and suitable work protection assured.  
The re-use of packaging is not recommended.  
Recycle and disposal of packaging should be carried out in compliance with local regulations and authorized waste management company

### **SECTION 14: Information relating to carriage**

#### 14.1 UN number

The transport of this substance is not subject to regulations.

#### 14.2 Proper load name according to UN Model Regulations

The transport of this substance is not subject to regulations.

#### 14.3 Transport hazard class(es)

The transport of this substance is not subject to regulations.

#### 14.4 Packing group

The transport of this substance is not subject to regulations.

#### 14.5 Environmental hazards

The transport of this substance is not subject to regulations.

#### 14.6 Special precautions for the user

The transport of this substance is not subject to regulations.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as delivered.

### **SECTION 15: Legally required information**

#### 15.1 Safety, health and environmental regulations and legislation specific for the substance or mixture:

This Safety Data Sheet complies with Regulation 1907/2006/EC - (REACH) as amended.

##### **Seveso Category - Directive 2012/18/EC:**

None

##### **Restrictions related to the product or contained substances according to Annex XVII Reg. (EC) 1907/2006:**

None

##### **Substances in Candidate List (Art. 59 REACH):**

The product does not contain SVHC substances in a percentage higher than 0.1%.

##### **Substances subject to authorisation (Annex XIV REACH):**

None

##### **Substances subject to export notification requirements Reg. (EC) 649/2012:**

None

##### **Substances subject to the Rotterdam Convention:**

According to directive 1907/2006/EC, 2020/878  
Version 13.0 Revision date: 20-12-2023  
Trade name: Investment Casting Powder – SRS Artcast

Page 1 of 8  
Print date: 10-4-2024

None

**Substances subject to the Stockholm Convention:**

None

15.2 Chemical Safety Assessment:

No chemical safety assessment has been carried out by the supplier.

**SECTION 16: Other information**

The data and information contained in this sheet are the result of the knowledge available at the date of publication. The company cannot be held responsible for damage to persons or property that may result from using the substance in a manner other than that for which it was intended. The sheet does not replace, but supplements the texts or the rules governing the user's activity. The user is fully responsible for the precautions required for the use that will be made of the product. It is understood that the user must define safety measures according to legislation applicable to its activities.

This product complies with EN 13279-1: Gypsum binders and gypsum plaster - Part 1: Definitions and requirements.

**Full text of the H statements**

H373: May cause damage to lungs through prolonged or repeated exposure via inhalation.

**Full text of other abbreviations**

STOT RE Specific target organ toxicity (single exposure)

**List of modifications / indications of changes:**

This Safety data Sheet has been modified to comply with:

- ✓ Regulation (EC) 2020/878
- ✓ Regulation (EC) 1272/2008

**Training advice:**

Employees must be trained in the proper use and handling of this product as required under applicable regulations.

**Classification of the preparation:**

STOT RE 2

H373

**Classification procedure:**

Calculation method

**Abbreviations and acronyms :**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AICS - Australian Inventory of Chemicals; ASTM - American Association for the Testing of Materials; bw - Body weight; CLP - Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardization; DSL - Indoor Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Load capacity associated with x% response; EmS - Emergency schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Cancer Research; IATA - International Air Transport Association; IBC - International IMO Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Act (Japan); ISO - International Organization for Standardization; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (median lethal dose); MARPOL - International

# SAFETY DATA SHEET

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According to directive 1907/2006/EC, 2020/878

Page 1 of 8

Version 13.0

Revision date: 20-12-2023

Print date: 10-4-2024

Trade name: Investment Casting Powder – SRS Artcast

Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No observable (negative) effect on concentration; NO(A)EL - No observable (negative) effect on Level; NOELR - No discernible effect on load capacity; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development OECD; OPPTS - Bureau of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure-Activity Relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH); RID - Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Inventory List; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substance Control Act (US); UN - United Nations; vPvB - Very difficult to degrade and very bioaccumulative