

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product Identifier

Product Name: Investment Casting Powder
REACH Registration No: Exempted in accordance with Annex V.7
Synonyms: n/a
Trade Names: Omega +, GS XXX, GS XL, GS KB, Investrite, Gemset, Resincast, Brasscast, GRS New, M599

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

1.3 Details of the supplier of the Safety Data Sheet

Company Name: COOKSON-CLAL
Address: 5 Chemin du Plateau 69570 Dardilly
Phone No. 0800 878 202
Fax No. qualite@cookson-clal.com
Email address:

1.4 Emergency telephone number:

Emergency Telephone No. +44 (0)1782 663600
Available outside office hours? No

2. HAZARDS 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.

This product should be handled with care to avoid dust generation.

2.2 Label elements:

Classification Regulation EC 1272/2008:
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.*



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 product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture

	CAS #	%
Cristobalite	14464-46-1	40 - 70
Quartz	14808-60-7	20 - 40
Gypsum	7778-18-9	20 - 30

3.2 Impurities

Contains between 1 and 10% of respirable crystalline silica and is classified as STOT RE 2.

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

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.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

No specific extinguishing media is needed.

5.2 Special hazards arising from the substance or mixture:

Non combustible. No hazardous thermal decomposition.

5.3 Advice for firefighters:

No specific fire fighting protection is required.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective 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.

6.4 Reference for other sections:

See sections 8 and 13.

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, wear suitable respiratory protective equipment. 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(s) :

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

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^{-3} in the UK, measured as an 8 hour TWA (Time Weighted Average).

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

8.2 Exposure controls:

8.2.1 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.

8.2.2 Individual protection measures such as personal protective equipment

Eye / face protection:	Safety glasses and face shield. Use equipment for eye protection tested and approved under appropriate standards.
Skin protection:	No specific requirement. For hands see below.
Hand protection:	Appropriate protection (e.g. gloves, barrier cream) is recommended for employees who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.
Respiratory protection:	In case of prolonged exposure to airborne dust concentrations, wear respiratory equipment (e.g. respirator, powered air respirator) that complies with the requirements of European or national legislation.



8.2.3 Environmental exposure controls:

Avoid wind dispersal.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Fine, white powder.
Odor:	Odorless
pH:	8-9
Melting point:	No data available.
Boiling point:	No data available.
Flash point:	No data available.
Relative density:	No data available.
Water solubility:	Non soluble

9.2 Other information:

No other information.

10. STABILITY AND REACTIVITY

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	Chemically stable.
10.3 Possibility of hazardous reactions:	No hazardous reactions.
10.4 Conditions to avoid:	No data available.
10.5 Incompatible materials:	No data available.
10.6 Hazardous decomposition products:	No data available.
11.1 Information on toxicology effects:	

11. TOXICOLOGY INFORMATION

- a) Acute toxicity:
Based on available data, the classification is not met.
- b) Skin corrosion/irritation:
Based on available data, the classification is not met.
- c) Serious eye damage/irritation:
Based on available data, the classification is not met.
- d) Respiratory or skin sensation:
Based on available data, the classification is not met.
- e) Germ cell mutagenicity:
Based on available data, the classification is not met.
- f) Carcinogenicity:
Based on available data, the classification is not met.
- g) Reproductive toxicity:
Based on available data, the classification is not met.
- h) STOT-single exposure:
Based on available data, the classification is not met.
- i) 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 to respirable crystalline silica dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles.
- j) Aspiration hazard: Based on available data, the classification is not met.

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:	No data available
12.6 Other adverse effects:	No specific adverse effects known

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

14.1 UN Number:	No data available.
14.2 UN proper shipping name:	No data available.
14.3 Transport hazard class(es):	
ADR:	Not dangerous goods.
IMDG:	Not dangerous goods.
ICAO/IATA:	Not dangerous goods.
RID:	Not dangerous goods.
14.4 Packing group:	No data available.
14.5 Environmental hazards:	No data available.
14.6 Special precautions for user:	No data available.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	No data available.

15. REGULATORY INFORMATION

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

International legislation/requirements:

Regulation (EC) No 2037/2000:	Not relevant
Regulation (EC) No 850/2004:	Not relevant
Regulation (EC) No 689/2008:	Not relevant

15.2 Chemical safety assessment:

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

16. OTHER INFORMATION

Training advice:

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

Guidance Books:

EH40/2005 - Workplace Exposure Information
 EH44/1997 - Dust: General Principles of Protection
 EH75/4 (2002) - Respirable Crystalline Silica - Phase 1
 EH75/5 (2003) - Respirable Crystalline Silica - Phase 2
 HSG37 - An Introduction to Local Exhaust Ventilation

Liability:

Such information given on this safety data sheet is to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as its accuracy, reliability or completeness. It is the users responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

Indication of the changes made to the previous revision of the SDS:

15/10/2012 - First Issue
 9/5/2013 - M625 Added
 17/6/2013 - M454 Added
 21/10/13—M463 Added
 9/12/13 GS KB Added
 29/04/15 M356 & Omega ++ Added
 1305/15— Hazard statement amended from H372 to H373
 16/09/2015—Amendment to section 2.2 signal word changed
 06/10/2015—M599 Added
 27/10/2015—M379 Added
 11/12/2015-H350 removed, and STOT RE Changed
 08/11/2016— Protocast added.
 08/05/2017 Removal of 1907/2006 and Regulation (EC) 453/2010 reference to comply with current regulation CLP 1272/2008.
 03/10/2018– Document reviewed to ensure it remains relevance.