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

1.1 Product identifier

Trade name/designation INVESTMENT POWDER

Name of Brand Prestige Oro / Prestige Unicast / Prestige Sigma / Prestige Sparkle / Prestige Optima / Royal Cast / Prestige Power Cast / Prestige Power Cast-T / Prestige Optima Next / Eurostartec

SDS Form No 152001

Unique Formula Identifier UFI: VCUE-HOGS-MOOS-51KO

Hazard components
Cristobalite, Quartz (SiO2)

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

Use of the substance/mixture
Making Mold for casting non-ferrous metals for jewelry mold block technology and industrial products.

Uses advised against
There are no uses advised against.

1.3 Details of the supplier of the safety data sheet

Supplier
CERTUS ALÇI VE DÖKÜM TEKNOLOJİ SAN. A.Ş.
Muratpaşa Mahallesi Siteler Caddesi no.14
TR-34040 Bayrampaşa/İstanbul
Telephone +90 (212) 674 81 47
Telefax +90 (212) 674 81 49

E-mail (competent person):
chris@certus-int.com

1.4 Emergency telephone number

Company (Emergency) +90 (212) 674 81 47

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

STOT RE 1, H372

Hazard statements for health hazards
H372 Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard components
Cristobalite, Quartz (SiO2)

Hazard pictograms



GHS08

Signal word
Danger

Hazard statements
H372 Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).

Precautionary statements
P260 Do not breathe dust.
P284 Wear respiratory protection.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with local regulations.

Additional information
The product is not classified as carcinogenic according to Regulation (EC) No. 1272/2008 (CLP). Airborne respirable crystalline silica may be generated during the handling and use of the product. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause fibrosis, commonly referred to as Silicosis. Principal systems of Silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

2.3 Other hazards

Adverse human health effects and symptoms
The mixture does not contain substances >=0.1% of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

Adverse environmental effects
The mixture does not contain substances >=0.1% of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

Results of PBT and vPvB assessment
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
14464-46-1	238-455-4		Cristobalite	≤ 75 %	STOT RE 1; H372	
7778-18-9	231-900-3		Calcium sulfate	≤ 35 %		
14808-60-7	238-878-4		Quartz (SiO2)	≥ 10 %	STOT RE 1; H372	

Additional information
Substances are exempt from the registration requirement in accordance with REACH Annex V No. 7.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
When in doubt or if symptoms are observed, get medical advice.

Following inhalation
Remove person to fresh air and keep comfortable for breathing.
In case of dyspnea give oxygen.
If unconscious but breathing normally, place in recovery position and seek medical advice.
If not breathing, give artificial respiration.
In the event of symptoms refer for medical treatment.

Following skin contact
Take off contaminated clothing and wash it before reuse.
In case of contact with skin, rinse with soap and water.
In case of skin irritation, consult a physician.

After eye contact
Remove contact lens.
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
In the event of persistent symptoms receive medical treatment.

Following ingestion
Rinse mouth thoroughly with water.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person or a person with cramps.
Maintain an open airway.
Consult a doctor.

Self-protection of the first aider
First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
eye irritation
Skin irritation

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
No specific extinguishing media is needed.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media
None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Product is not inflammable
In case of fire, dangerous combustion gases and vapours may be generated.

5.3 Advice for firefighters

Special protective equipment for firefighters
Cool endangered containers with water spray and possibly remove them from fire site.
Keep people away and stay on the windward side.
In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of contaminated extinguishant water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid skin and eye contact.
Do not breathe dust.
Avoid dust formation.
Wear protective equipment (see section 8).
Keep away unprotected persons.
Evacuate the accident area.

For emergency responders

Keep people away and stay on the upwind side.
Personal protection equipment

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
Inform competent authorities in case of leakage to sewage system/surface water/ground water.

6.3 Methods and material for containment and cleaning up

For containment

If there is a risk of entry into the sewerage system, erect barriers and/or cover the sewerage system.

For cleaning up

Take up mechanically.
Avoid dust formation.
After taking up the material dispose according to regulation.

6.4 Reference to other sections

Emergency telephone number: see section 1
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid skin and eye contact
Avoid dust formation.
Provide for appropriate ventilation/aspiration at the work station.
The danger areas must be delimited and identified using relevant warning and safety signs.

Advices on general occupational hygiene

Please observe work hygiene regulations.
Wash hands before breaks and after work.
Take off contaminated clothing and wash it before reuse.
When using do not eat, drink, smoke.
Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place.
Keep/Store only in original container.

Materials to avoid
none

Further information on storage conditions
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep away from food, drink and animal feedingstuffs.
Follow the instructions on the label.

7.3 Specific end use(s)

Recommendation
See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No	EC No	Substance name	occupational exposure limit value
7778-18-9	231-900-3	Calcium sulphate	10 [mg/m3] (IE)
14464-46-1		Cristobalite, total	0,1 (1) [mg/m3] (1) Respirable fraction (IE)
14808-60-7		Quartz	0,1 (1) [mg/m3] (1) Respirable fraction (IE)

8.2 Exposure controls

Appropriate engineering controls

Remark
Technical measures and the application of suitable work processes have priority over personal protection equipment.

Technical measures to prevent exposure
Sufficient ventilation and exhaustion.

Personal protection equipment

Eye/face protection
In case of dust formation it is recommended to wear protective goggles.
Safety spectacles (EN 166)

Hand protection
Appropriate protection (e.g. gloves, barrier cream) is recommended for employees who suffer from dermatitis or sensitive skin.
Glove material specification [make/type, thickness, permeation time/wearing time, wetting resistance]: nitrile rubber, >0,11 mm, > 480 min.
The selected protective gloves must be in compliance with the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.
The exact breakthrough time of the glove material is to be inquired from the protection glove manufacturer and must be strictly adhered to.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection:
Protective clothing shall be choose with respect to the function/activity and the possible exposure.
EN ISO 13982

Respiratory protection
Respiratory protection necessary at:
exceeding exposure limit values
insufficient ventilation
Recommended filter type:
FFP3 (EN 149)
In case of prolonged exposure:
Ventilator filtering device (EN 147)

Environmental exposure controls

Remark
Avoid creating dusty conditions and prevent windblown dust and dust emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
solid
Powder

Colour
white

Odour
odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability			Not flammable
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	6- 8 (30°C) Concentration 10 g/L		
Viscosity	not determined		
Solubility(ies)	Water solubility		insoluble
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	2.4- 2.6 g/cm³		
Relative vapour density			not relevant
particle characteristics	not determined		

9.2 Other information

Information with regard to physical hazard classes

Oxidising solids

Safety characteristics

	Value	Method, Result	Source, Remark
			not applicable

Other safety characteristics

	Value	Method	Source, Remark
Explosive properties			not explosive
Oxidising properties			not oxidizing

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is non-reactive under the recommended storage, use and temperature conditions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Avoid dust accumulation.

10.5 Incompatible materials

None if used as intended.

10.6 Hazardous decomposition products

No risk of production of decomposition products when appropriately handled and stored.

SECTION 11: Toxicological information

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

Acute toxicity

Animal data

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	ATEmix > 2000 mg/kg		
Acute dermal toxicity	ATEmix > 2000 mg/kg		
Acute inhalation toxicity	Acute inhalation toxicity (gas) ATEmix > 5 mg/L		

Assessment/classification

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Assessment/classification

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Assessment/classification
Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract

Assessment/classification
Based on available data, the classification criteria are not met.

Skin sensitisation

Assessment/classification
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

Overall Assessment on CMR properties

Based on available data, the classification criteria are not met.

STOT-single exposure

STOT SE 1 and 2

Assessment/classification
Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract

Assessment/classification
Based on available data, the classification criteria are not met.

Narcotic effects

Assessment/classification
Based on available data, the classification criteria are not met.

STOT-repeated exposure

Practical experience/human evidence
Long-term inhalation of quartz dust can cause silicosis. There is sufficient evidence that people suffering from silicosis have an increased risk of developing lung cancer.

Assessment/classification
Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).

Aspiration hazard

Assessment/classification
Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Information on other hazards

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification
Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Assessment/classification
No data available

12.3 Bioaccumulative potential

Assessment/classification
No data available

12.4 Mobility in soil

Assessment/classification
not relevant

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			No data available.

12.7 Other adverse effects

Additional ecotoxicological information

Additional information
Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product
Dispose of waste according to applicable legislation.

Appropriate disposal / Package
Dispose of waste according to applicable legislation.

Remark
The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	-	-	-

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

not applicable

All transport carriers
No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

SECTION 15: Regulatory information

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

EU legislation

Authorisations
None of the components is listed.

Restrictions on use
REACH Annex XVII: No substances subject to restrictions under Annex XVII of Regulation (EC) No. 1907/2006 are present in this mixture.

Other regulations (EU)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC
VOC-value 0 g/L

15.2 Chemical Safety Assessment

National regulations

A material safety assessment was not conducted.

SECTION 16: Other information

Abbreviations and acronyms
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
STOT RE 1: Specific target organ toxicity (repeated exposure), Category 1

Key literature references and sources for data
ECHA (European Chemical Agency)
Subcontractors' data sheet.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
The product is to be produced on the basis of the available hazard data of the ingredients, as defined in the classification criteria for mixtures for each hazard class in Annex I to Regulation (EC) No 1272/2008, classified.
Classification method:
Calculation

Additional information
Adhere to existing national and local rules referring to chemicals.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)
H372 Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).