

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 (Reach) and Regulation (EU) No. 2015/830
Cobalt-based powder dental alloys



Rev: 02/26.06.2025

replaces: 00/25.08.2020

SDB GS-Alloy Co Powder Rev 02_26.06.2025

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

1.1 Product identifier

GQ Nano Powder 10–30

GQ Nano Powder 15–45

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

General use: Manufacturing of dental prostheses in dental laboratories using the SLM-process

1.3 Details of the supplier of the safety data sheet

Address:

German Special Alloys GmbH

Carl-Friedrich-Benz-Str. 1b

47877 Willich

Germany

Telephone: +49 (0)2154-88 09 180

E-Mail: info@gs-alloys.de

Web: www.german-special-alloys.com

Information provided by

Sales Department: +49 (0)2154-88 09 180

1.4 Emergency telephone number

For medical advice (*in German and English*):

+49 (0)551 192 40 (Information Center Germany North for poisonous substances)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Sol. 2; H228

Flammable solids.

Resp. Sens. 1; H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1; H317

May cause an allergic skin reaction.

Muta. 2; H341

Suspected of causing genetic defects.

Carc. 1B; H350

May cause cancer.

Repr. 1A; H360F

May damage fertility.

Aquatic Chronic 4; H413

May cause long lasting harmful effects to aquatic life.

2.2 Label elements

Labelling according to EC-Regulation 1272/2008 (CLP)

Hazard pictograms



GHS02



GHS06



GHS08



GHS09

Signal word: **Danger**

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Hazard statements

H228	Flammable solid.
H302	Harmful if swallowed. Danger:
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash face, hands and any exposed skin 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.
P281	Use personal protective equipment as required.
P284	Wear respiratory protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/ national/ international regulations.

Special labelling

Text for labelling: Contains: Cobalt.

As alloy this product does not require labelling if it fulfils the criteria of Annex I section 1.3.4 of the CLP Regulation.

2.3 Other hazards

During processing, dust may form explosive mixture in air.
Mechanical processing can produce particles and dust. Dust contact with the eyes can lead to mechanical irritation. Inhalation of dust may cause irritation of the respiratory system.

Results of PBT and vPvB assessment:

The alloys under concern are not known to be persistent, bioaccumulating nor toxic.

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SECTION 3: Composition / information on ingredients

3.1 **Substances:** not applicable.

3.2 **Mixtures:**

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

No.	Substance Name CAS / EG / Index	Classification (EG) 1272/2008 (CLP)	Additional information Content
1	Cobalt EC-Nr. 231-158-0 CAS 7440-48-4	Resp. Sens. 1; H334. Skin Sens. 1; H317. Muta. 2; H341. Carc. 1B; H350. Repr. 1B; H360F. Aquatic Chronic 4; H413.	60 – 65 %-b.w.
2	Chromium Lumps or Powder EC-Nr. 231-157-5 CAS 7440-47-3	not classified	20 – 25 %-b.w.
3	Tungsten powder EC-Nr. 231-143-9 CAS 7440-33-7	Flam. Sol. 2; H228.	5 – 10 %-b.w.
4	Manganese Powder < 45 µm, > 25 % EC-Nr. 231-105-1 CAS 7439-96-5	Aquatic Chronic 2; H411.	< 0,99 %-b.w.

Full text of H- and EUH-statements: see section 16.

Additional information: The maximum workplace exposure limits are, where necessary, listed in section 8.

Section 4: First aid measures

4.1 **First aid measures**

General information: If medical advice is needed, have product container or label at hand.

Take off immediately all contaminated clothing and wash it before reuse.

First aider: Pay attention to self-protection!

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If victim is at risk of losing consciousness, position and transport on their side. Immediately get medical attention.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Caution if victim vomits: Risk of aspiration!

When swallowed and vomited immediately, aspiration into the lungs may occur resulting in chemical pneumonia or suffocation. Immediately get medical attention.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.
foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Water

5.2 Special hazards arising from the substances or mixtures

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Metal oxide smoke, toxic

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid exposure. Avoid breathing dust

Provide adequate ventilation. Wear appropriate protective equipment. Keep unprotected people away. Evacuate area.

If possible, eliminate leakage. Take off immediately all contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

If necessary, notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation.

Additional information: During processing, dust may form explosive mixture in air.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Obtain special instructions before use.

Do not get in eyes, on skin, or on clothing. Provide adequate ventilation, and local exhaust as needed. Avoid breathing dust. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Take off immediately all contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Do not store together with combustible or self-igniting materials or any highly flammable solids.
Do not store together with acids/alkalies and oxidation agents.

7.3 Special end use(s)

General use: Manufacturing of dental prostheses in dental laboratories using the SLM-process.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7440-48-4	Cobalt	Great Britain: WEL-TWA	0.1 mg/m ³
		Ireland: 8 hours	0.02 mg/m ³
7440-47-3	Chromium Lumps oder Pulver	Europe: IOELV: TWA	2 mg/m ³
		(metal and compounds, inorganic, insoluble)	
7440-33-7	Tungsten powder	Great Britain: WEL-TWA	0.5 mg/m ³
		Ireland: 8 hours	2 mg/m ³
7439-98-7	Molybdenum	Great Britain: WEL-STEL	10 mg/m ³ compounds, insoluble
		Great Britain: WEL-STEL	3 mg/m ³ compounds, soluble
		Great Britain: WEL-TWA	1 mg/m ³ compounds, soluble
		Great Britain: WEL-TWA	5 mg/m ³ compounds, insoluble
		Ireland: 15 minutes	10 mg/m ³ insoluble
		Ireland: 15 minutes	3 mg/m ³ (soluble)
		Ireland: 8 hours	1 mg/m ³ (soluble)
		Ireland: 8 hours	5 mg/m ³ insoluble
		Ireland: 8 hours	10 mg/m ³
		Ireland: 8 hours	(compounds soluble, Molybdenum)
7440-21-3	Silicon	Great Britain: WEL-STEL	20 mg/m ³
		(compounds insoluble, Molybdenum)	
		Great Britain: WEL-TWA	10 mg/m ³
		(compounds insoluble, Molybdenum)	
		Great Britain: WEL-TWA	5 mg/m ³
		(compounds soluble, Molybdenum)	
		Ireland: 8 hours	0.5 mg/m ³
		(compounds, soluble, respirable fraction)	
Ireland: 8 hours	10 mg/m ³		
Ireland: 8 hours	compounds, insoluble; inhalable fraction		
Ireland: 8 hours	3 mg/m ³		
Ireland: 8 hours	compounds, insoluble; respirable fraction		

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CAS No.	Designation	Type	Limit value
7439-96-5	Manganese Powder < 45 µm, > 25 %	Europe: IOELV: TWA Europe: IOELV: TWA Great Britain: WEL-TWA Great Britain: WEL-TWA Ireland: 15 minutes Ireland: 8 hours Ireland: 8 hours Ireland: 8 hours	0.05 mg/m ³ (respirable fraction) 0.2 mg/m ³ (inhalable fraction) 0.05 mg/m ³ (Manganese and compounds, inorganic, respirable fraction) 0.2 mg/m ³ (Manganese and compounds, inorganic, inhalable fraction) 3 mg/m ³ (Manganese, Smoke, inhalable fraction) 0.05 mg/m ³ (respirable fraction) 0.2 mg/m ³ (Manganese and compounds) 0.2 mg/m ³ (Manganese, Smoke, inhalable fraction)

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protection equipment

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded.

In case of dust formation: Particulates filter P3 according to EN 143.

Eye protection:

Tightly sealed goggles according to EN 166.

Hand protection:

Protective gloves according to EN 374.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Body protection:

Wear dust-resistant protective clothing.

General protection and hygiene measures:

Obtain special instructions before use. Avoid breathing dust. Do not get in eyes, on skin, or on clothing.

Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

See section 6.2 Environmental precautions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form / Colour/ Odour	-	Physical state at 20 °C and 101.3 kPa: solid, powder/ grey/ odourless
pH	-	Not applicable
Melting point / freezing point	-	1200 - 1400 °C The various products have different melting intervals within the indicated melting range
Initial boiling point / boiling range	-	No data available
Flash point/flash point range	-	Not applicable

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Evaporation rate	-	No data available
Flammability	-	This product is non-flammable.
Explosion limits	-	No data available
Vapour pressure	-	No data available
Vapour density	-	No data available
Density	-	at 20 °C: 8 - 9 g/cm ³
Solubility in water	-	insoluble
Partition coefficient: n-octanol/water	-	No data available
Auto-ignition temperature	-	No data available
Decomposition temperature	-	No data available
Viscosity, kinematic	-	No data available
Explosive properties	-	During processing, dust may form explosive mixture in air.
Oxidizing characteristics	-	No data available

9.2 Other Information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Avoid contact with acids. May result in the release of: Hydrogen.

10.4 Conditions to avoid

Avoid dust formation.

10.5 Incompatible materials

Acids, alkalis, strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition: No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix (calculated): > 5000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix (calculated): > 5 mg/kg

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Resp. Sens. 1; H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.
Germ cell mutagenicity/Genotoxicity: Muta. 2; H341 = Suspected of causing genetic defects.
Carcinogenicity: Carc. 1B; H350 = May cause cancer.
Reproductive toxicity: Repr. 1A; H360F = May damage fertility.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Other information: Information about Cobalt

LD50 Rat, oral: 6.171 mg/kg

Symptoms

Mechanical processing can produce particles and dust. Dust contact with the eyes can lead to mechanical irritation. Inhalation of dust may cause irritation of the respiratory system.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Toxicity

May cause long lasting harmful effects to aquatic life.

Information about Cobalt:

Algae toxicity: EC50 Pseudokirchneriella subcapitata (green algae): 0.27 mg/L/70h

Fish toxicity: LC50 Leuciscus idus: >10 mg/L/48h

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

The alloys under concern are not known to be persistent, bioaccumulating nor toxic.

12.6 Other adverse effects

Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 06 04 05* = wastes containing other heavy metals

* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Packages

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

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SECTION 14: Transport information

- 14.1 **UN number**
ADR/RID, ADN, IMDG, IATA-DGR:
Not applicable.
- 14.2 **UN proper shipping name**
ADR/RID, ADN, IMDG, IATA-DGR:
Not restricted.
- 14.3 **Transport hazard class(es)**
ADR/RID, ADN, IMDG, IATA-DGR:
Not applicable.
- 14.4 **Packing group**
ADR/RID, ADN, IMDG, IATA-DGR:
Not applicable.
- 14.5 **Environmental hazards**
Marine pollutant: no
- 14.6 **Special precautions for user**
No dangerous good in sense of these transport regulations.
- 14.7 **Transport in bulk according to Annex II of Marpol and the IBC Code**
No data available.

SECTION 15: Regulatory information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- National regulations - Great Britain**
Hazchem-Code: -
No data available
- National regulations - EC member states**
Further regulations, limitations and legal requirements:
Use restriction according to REACH annex XVII, no.: 28, 29, 30
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: H1, E1.
- 15.2 **Chemical Safety Assessment:** For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H- and P-phrases under paragraph 2 and 3:

Hazard statements

H228	Flammable solid.
H302	Harmful if swallowed. Danger:
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

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H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash face, hands and any exposed skin 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.
P281	Use personal protective equipment as required.
P284	Wear respiratory protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/ national/ international regulations.

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
OEL: Occupational Exposure Limit Value
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC50: Effective Concentration 50%
EC: European Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OSHA: Occupational Safety and Health Administration

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PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

TLV: Threshold Limit Value

vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

Date of first version: 25.08.2020

Changes from the previous version: Section 2

Data sheet exhibiting area

Contact: See Section 1.3 Information Area

The information in this data sheet is compiled to the best of our knowledge and corresponds to the state of knowledge at the revision date. However, they do not guarantee compliance with certain characteristics in the sense of legally binding.