

Trade name: Mediloy S-Co (REF 50551)**Current version :** 1.0.0, issued: 07.01.2025**Replaced version:** -, issued: -**Region:** USA**SECTION 1: Identification****1.1 Product identifier**

Trade name

Mediloy S-Co (REF 50551)**1.2 Recommended use of the chemical and restrictions on use****Recommended use of the chemical and restrictions on use**

Manufacturing of dental prosthesis in a dental laboratory

Restrictions on use

No data available.

1.3 Details of the supplier of the safety data sheet**Address**BEGO USA. Inc.
24 Albion Road, Suite 103
Lincoln RI 02865Telephone no. 401-334-9261
e-mail begoinfo@begousa.com**1.4 Emergency phone number**BEGO USA
+1 401-334-9261 (8.30 a.m - 5.00 p.m EST)**SECTION 2: Hazard(s) identification****2.1 Classification of the chemical****Classification of the chemical in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication"**Carcinogenicity - Category 1B
Germ Cell Mutagenicity - Category 2
Reproductive Toxicity - Category 1B
Respiratory sensitization - Category 1
Skin sensitization - Category 1**2.2 Label elements****Pictogram(s)****Signal word**

Danger

Hazard Statement(s)

Health hazards

May cause an allergic skin reaction
May cause allergy or asthma symptoms or breathing difficulties if inhaled
Suspected of causing genetic defects
May cause cancer.
May damage fertility or the unborn child.**Precautionary Statement(s)**

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.

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Response	If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Specific treatment (see first aid instruction on this label). If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Labelling information

No data available

2.4 Hazards not otherwise classified (HNOC)

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name	Concentration	%
	CAS no.		
1	cobalt		
	7440-48-4	>= 50.00 - < 70.00	%-b.w.

3.3 Other information

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of 29 CFR 1910.1200

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General information

In case of persisting adverse effects, consult a physician. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area. Irregular breathing/no breathing: artificial respiration.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). In case of irritation consult an ophthalmologist.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

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Suitable extinguishing media

Metal fire powders; Sand

Unsuitable extinguishing media

Water; Carbon dioxide

5.2 Specific hazards arising from the chemical

In the event of fire, the following can be released: Metal oxides

5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation. Use personal protective clothing. Avoid contact with skin, eyes and clothing. Keep away from ignition sources.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Methods and materials for containment and cleaning up

Collect mechanically. Avoid raising dust. When collected, handle material as described under the section heading "Disposal considerations".

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Risks inherent to handling the product must be minimised by applying appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Avoid the formation and deposition of dust.

General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from food, drink and animal feeding stuffs. Do not inhale vapours or dust. Provide eye wash fountain in work area. Hold emergency shower available.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Do not store together with: Acids; Bases

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limit(s)

No	Substance name	CAS no.
1	cobalt	7440-48-4
ACGIH Threshold Limit Values		
Cobalt and inorganic compounds, as Co		

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	TWA	0,02 (l)	mg/m ³
	Skin resorption / sensibilisation		
	Remarks	DSEN; RSEN; A3; BEI	
OSHA Permissible Exposure Limits (PELS)			
Cobalt metal (as Co) dust and fume			
	TWA	0.1	mg/m ³
2	chromium	7440-47-3	
ACGIH Threshold Limit Values			
Chromium			
	TWA	0,5 (l)	mg/m ³
OSHA Permissible Exposure Limits (PELS)			
Chromium metal and insoluble salts (as Cr)			
	TWA	1	mg/m ³
3	Dust		
OSHA Permissible Exposure Limits (PELS)			
Particulates not otherwise regulated (PNOR) Total dust			
	TWA	15	mg/m ³
OSHA Permissible Exposure Limits (PELS)			
Particulates not otherwise regulated (PNOR) Respirable fraction			
	TWA	5	mg/m ³
4	Tungsten	7440-33-7	
ACGIH Threshold Limit Values			
Tungsten, metall and insoluble compounds, as W			
	TWA	3 (R)	mg/m ³
	Skin resorption / sensibilisation		
5	molybdenum	7439-98-7	
ACGIH Threshold Limit Values			
Molybdenum, as Mo, Metal and insoluble compounds			
	TWA	10 (l)	mg/m ³
	Skin resorption / sensibilisation		
ACGIH Threshold Limit Values			
Molybdenum, as Mo, Metal and insoluble compounds			
	TWA	3 (R)	mg/m ³
	Skin resorption / sensibilisation		
6	Silicon	7440-21-3	
OSHA Permissible Exposure Limits (PELS)			
Silicon Total dust			
	TWA	15	mg/m ³
OSHA Permissible Exposure Limits (PELS)			
Silicon Respirable fraction			
	TWA	5	mg/m ³

8.2 Exposure controls

Appropriate engineering controls

Provide good ventilation of working area (local exhaust ventilation if necessary).

Individual protection measures, such as personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

Respiratory filter (part): EN 143 - P3

Eye / face protection

Safety glasses (EN 166)

Hand protection

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Sufficient protection is given wearing suitable protective gloves in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber
 Appropriate Material Nitrile butyl rubber

Other protection measures

Protective clothing

SECTION 9: Physical and chemical properties

Form/Color	
Powder	
gray	
Odor	
odorless	
Odor threshold	
No data available	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point / melting range	
Value	1200 - 1550 °C
Decomposition point / decomposition range	
No data available	
Flash point	
No data available	
Auto-ignition temperature	
No data available	
Oxidising properties	
not oxidizing	
Explosive properties	
The product does not have explosive properties.	
Flammability	
not flammable	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapor pressure	
No data available	
Vapor density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	

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No data available

Bulk density	
Value	4000 - 5000 kg/m ³

Solubility in water
No data available

Solubility(ies)
No data available

Partition coefficient: n-octanol/water
No data available

Viscosity
No data available

Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

None, when used as directed.

10.4 Conditions to avoid

Heat, open flames and other sources of ignition.

10.5 Incompatible materials

Acids; Bases

10.6 Hazardous decomposition products

Fumes of metal oxide

SECTION 11: Toxicological information

Information on toxicological effects

Acute oral toxicity
No data available

Acute dermal toxicity
No data available

Acute inhalational toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Reproduction toxicity
No data available

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Carcinogenicity
No data available

NTP Report on Carcinogens (RoC)			
The product contains following substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen)			
No	Substance name	CAS no.	No
1	cobalt	7440-48-4	RAHC, RAHC

OSHA Standards listing cancer as a health effect (Table VII.6.2)			
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic.			

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
The product contains following substance(s) classified by the IARC Monographs			
No	Substance name	CAS no.	Group
1	chromium	7440-47-3	3
2	cobalt	7440-48-4	2B, 2A

STOT - single exposure			
No data available			

STOT - repeated exposure			
No data available			

Aspiration hazard			
No data available			

Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Inhalation of vapours in high concentration may cause metal fume fever and may cause damage of the central nervous system in case of repeated and prolonged exposure. Repeated and prolonged exposure to high dust concentrations may lead to irritation of the respiratory tract. Inhalation of metal-containing dusts may cause acute poisoning, leading to nausea, vomiting and abdominal pain.			

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No data available			

Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No data available			

Toxicity to Daphnia (chronic)			
No data available			

Toxicity to algae (acute)			
No data available			

Toxicity to algae (chronic)			
No data available			

Bacteria 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.

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12.5 Other adverse effects

No data available.

12.6 Other information

Other information

Do not discharge into drains or waters and do not dispose of in public landfills.

SECTION 13: Disposal considerations

13.1 Disposal considerations

Product

Dispose in accordance with federal, state and local regulations.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

SECTION 14: Transport information

14.1 US DOT (Department of Transportation)

The product is not subject to DOT regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information

15.1 US Federal Regulations

Toxic Substances Control Act (TSCA)

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory listed as active or are exempted from notification requirements.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

The product contains following substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities"

No	Substance name	CAS no.
1	chromium	7440-47-3
2	cobalt	7440-48-4

Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

The product contains following substance(s) that are considered being "Hazardous Air Pollutants".

No	Substance name	CAS no.
1	cobalt	7440-48-4

Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	chromium	7440-47-3

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EPCRA SARA Section 313, Toxic Chemical Release Inventory

The product contains following substance(s) that are considered being subject to "SARA Reporting".

No	Substance name	CAS no.
1	chromium	7440-47-3
2	cobalt	7440-48-4

Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to reporting requirements.

Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

15.2 US State Regulations**Pennsylvania State Right to Know Hazardous Substance List**

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	chromium	7440-47-3
2	cobalt	7440-48-4
3	molybdenum	7439-98-7
4	Silicon	7440-21-3
5	Tungsten	7440-33-7

New Jersey State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	chromium	7440-47-3
2	cobalt	7440-48-4
3	molybdenum	7439-98-7
4	Silicon	7440-21-3
5	Tungsten	7440-33-7

Massachusetts State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	chromium	7440-47-3
2	cobalt	7440-48-4
3	molybdenum	7439-98-7
4	Silicon	7440-21-3
5	Tungsten	7440-33-7

California Code of Regulations Title 8 §339, Hazardous Substances List

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	chromium	7440-47-3
2	cobalt	7440-48-4
3	molybdenum	7439-98-7
4	Tungsten	7440-33-7

Right to Know - California State - Proposition 65

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.	type of toxicity
1	cobalt	7440-48-4	cancer

SECTION 16: Other information, including date of preparation or last revision**16.1 Other information**

No data available.

16.2 Date of preparation/revision of the SDS

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16.3 Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

16.4 Conclusions

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not, however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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16.5 Key / Legend

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5E - indicates a substance that is the subject of a TSCA section 5(e) order
5F - indicates a substance that is the subject of a TSCA section 5(f) rule
ACGIH - American Conference of Governmental Industrial Hygienists
ATE – Acute Toxicity Estimate
BOD - Biochemical Oxygen Demand
CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*;
CAS - Chemical Abstracts Service
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations (US)
CLP - Classification, Labelling, and Packaging
DOT - Department of Transportation Commission
ECHA – European Chemicals Agency
EC / EL – Effective Concentration / Effective Loading
EPA - Environmental Protection Agency
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC – Intermediate Bulk Container
ICAO - International Civil Aviation Organization
IDL - Ingredient Disclosure List
IDLH - Immediately Dangerous to Life and Health
IMDG - International Maritime Dangerous Goods
IUCRID - International Uniform Chemical Information Database
Kow - Octanol/water partition coefficient
LD/LC - Lethal Dose/ Lethal Concentration
MARPOL – Marine Pollution
MEL - Maximum Exposure Limits
NFPA - National Fire Protection Agency
NIOSH - National Institute for Occupational Safety and Health
NJTSR - New Jersey Trade Secret Registry
NOEL/NOEC – No Observed Effect Level / No Observed Effect Concentration
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL- Permissible Exposure Limit
PMN - indicates a commenced Pre Manufacture Notice substance
RCRA - Resource Conservation and Recovery Act
S - indicates a substance that is identified in a final Significant New Use Rule
SARA - Superfund Amendments and Reauthorization Act
SP - indicates a substance that is identified in a proposed Significant New Use Rule
STEL - Short-term Exposure Limit
STOT – Specific Target Organ Toxicity
T - indicates a substance that is the subject of a final TSCA section 4 test rule or order
TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule or order
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
UN/NA - United Nations /North American
US - United States
VLE - Exposure Limit Value (Mexico)
VOC – Volatile Organic Compounds
XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule