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NO.2624011211

## SAFETY DATA SHEET

**Product Name:** SLM Cocr Powder

**Effective Date:** 2024-01-16

**Compiler:** Huang Chaozheng

**Checker:** Liu Wangqiang

**Approver:** Dongxuesheng

Shanghai Institute of Chemical Industry Testing Co., Ltd.



# Nanjing Chamlion Laser Technology Co., Ltd

## SAFETY DATA SHEET

### SLM Cocr Powder

#### SECTION1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** SLM Cocr Powder

**Company:** Nanjing Chamlion Laser Technology Co., Ltd

**Address:** 02, Dongcheng, Entrepreneurship and Innovation City, No. 15 Fengji Avenue, Yuhuatai District, Nanjing, 210039, P. R. China

**Email:** min.gu@chamlion.com

**Fax:** 86-25-69590492

**Emergency Phone:** 86-18951905548

**Recommend use of the chemical and restrictions on use:** The product is used to print metal inner crowns, removable partial dentures and retainers of dental metal-ceramic restorations. Not edible, professional use only.

**SDS Number:** 2624011211

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#### SECTION2 HAZARDS IDENTIFICATION

**GHS Classification:**

**Physical Hazards:**

Not Classified

**Health Hazards:**

Acute toxicity-Oral Category 4

Serious eye damage/eye irritation Category 2

Respiratory sensitization Category 1

Skin sensitization Category 1

Germ cell mutagenicity Category 2

Carcinogenicity Category 1B

Reproductive toxicity Category 1B

**Environmental Hazards:**

Classification not possible

The hazards not mentioned are not applicable or no data available.

**Pictogram:**

**Signal Word:**

Danger

**Hazard Statements:**

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.

**Prevention Precautionary Statements:**

- P270 Do not eat, drink or smoke when using this product.
- P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
- P233 Keep container tightly closed.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or with adequate ventilation.
- P284 In case of inadequate ventilation wear respiratory protection.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P203 Obtain, read and follow all safety instructions before use.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**Response Precautionary Statements:**

- P301+P317 IF SWALLOWED: Get medical help.
- P330 Rinse mouth.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P317 If eye irritation persists: Get medical help.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P342+P316 If experiencing respiratory symptoms: Get emergency medical help immediately.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P333+P317 If skin irritation or rash occurs: Get medical help.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P318 IF exposed or concerned, get medical advice.

**Storage Precautionary Statements:**

- P403 Store in a well-ventilated place.
- P405 Store locked up.

**Disposal Precautionary Statements:**

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

**Other Hazards:**

No data available.

**SECTION3 INFORMATION ON INGREDIENTS**

Product name: SLM Cocr Powder

Ingredient	Concentration	CAS No.	EC No.
Mixtures:			
Cobalt (Co)	65%	7440-48-4	231-158-0
Chromium (Cr)	26%	7440-47-3	231-157-5
Tungsten (W)	5%	7440-33-7	231-143-9
Molybdenum (Mo)	4%	7439-98-7	231-107-2

## SECTION4 FIRST-AID MEASURES

### Skin Exposure:

In case of skin contact, flush with copious amounts of water. If skin irritation or rash occurs, Call a physician.

### Eye Exposure:

In case of contacting with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, Call a physician.

### Inhalation Exposure:

If inhaled, immediately remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician.

### Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### Most Important Symptoms/Effects, Acute and Delayed:

No data available.

### Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

## SECTION5 FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Suitable: Special powder against metal, Dry sand.

### Specific Hazards Arising from the Chemical:

Take care as it may decompose upon combustion or in high temperatures to generate cobalt oxides, chromium oxides, molybdenum oxides, tungsten oxides.

### Special Protective Action for Fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

## SECTION6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Remove all sources of ignition. Avoid breathing dust. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Avoid entering drains.

**Methods and Materials for Containment and Cleaning up:**

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## **SECTION7 HANDLING AND STORAGE**

**Precautions for Safe Handling:**

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and gloves. Avoid inhalation of dust. Avoid contact with eyes, skin and clothing. Avoid formation of dust. Keep away from ignition sources, heat and flame. Wash hands and face thoroughly after handling. No smoking at working site. Mechanical exhaust required. Incompatibilities: acids, oxidizing agents. Handling and unloading should be light, to prevent packaging broken, damp and cause losses. Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

**Conditions for Safe Storage, Including any Incompatibilities:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: acids, oxidizing agents. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

## **SECTION8 EXPOSURE CONTROL/PPE**

**Control Parameters:**

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace – Part 1: Chemical Hazardous Agents:

Cobalt and compounds, as Co: PC-TWA 0.05 mg/m<sup>3</sup> PC-STEL 0.1 mg/m<sup>3</sup> Remarks: G2B; sensitization

Chromium: PC-TWA 0.05mg/m<sup>3</sup> Remark: G1, Sensitization

Tungsten and insoluble compounds, as W PC-TWA 5 mg/m<sup>3</sup> PC-STEL 10 mg/m<sup>3</sup>

ACGIH:

Cobalt: TLV-TWA 0.02 mg(Co)/m<sup>3</sup>, Inhalable dust

Chromium: TLV-TWA 0.5 mg(Cr)/m<sup>3</sup>, Respirable dust

Molybdenum: TLV-TWA 0.5 mg(Mo)/m<sup>3</sup>, Respirable dust

**Appropriate Engineering Controls:**

Mechanical exhaust required. Safety shower and eye bath.

**Individual Protection Measures:****Eye/Face Protection:**

Wear chemical safety glasses.

**Skin Protection:**

Hand Protection: Wear compatible protective gloves.

Body Protection: Wear appropriate protective clothing.

**Respiratory Protection:**

Wear government approved respirator.

**Thermal Hazards:**

No data available.

**Other Protect:**

No smoking, drinking and eating at working site. Wash thoroughly after handling.

## **SECTION9 PHYSICAL/CHEMICAL PROPERTIES**

**Appearance:** Gray powder

**Odor:** Weak odor

**pH Value:** Not applicable

**Solubility:** Hardly soluble in water  
**Melting Point/Freezing Point:** No data available  
**Boiling Point, Initial Boiling Point and Boiling Range:** Not applicable  
**Flash Point (Closed Cup):** No data available  
**Density/Relative Density:** No data available  
**Kinematic Viscosity:** Not applicable  
**Lower/Upper Explosive Limit/Flammability Limit:** No data available  
**Vapour Pressure:** No data available  
**Partition Coefficient N-Octanol/Water (Log Value):** No data available  
**Autoignition Temperature:** No data available  
**Decomposition Temperature:** No data available  
**Particle Characteristics:** No data available  
**Flammability (Solid, Gas):** The substance is not classified in Division 4.1 Flammable Solids.

## SECTION10 STABILITY AND REACTIVITY

**Reactivity:**  
 No data available.

**Chemical Stability:**  
 Stable under normal temperatures and pressures.

**Possibility of Hazardous Reactions:**  
 No data available.

**Conditions to Avoid:**  
 No data available.

**Incompatible Materials:**  
 Acids, oxidizing agents.

**Hazardous Decomposition Products:**  
 Cobalt oxides, chromium oxides, molybdenum oxides, tungsten oxides.

## SECTION11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:**  
 Cobalt: LD<sub>50</sub> Oral - Rat - female - 550 mg/kg (OECD Test Guideline 425)

**Skin Corrosion/Irritation:**  
 Cobalt: Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 15 min (OECD Test Guideline 439)

**Serious Eye Damage/Irritation:**

Cobalt: Eyes - Rabbit Result: irritating (OECD Test Guideline 405)  
This product causes serious eye irritation.

**Respiratory Sensitization:**

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

**Skin Sensitization:**

May cause an allergic skin reaction.

**Germ Cell Mutagenicity:**

Suspected of causing genetic defects.

**Carcinogenicity:**

May cause cancer.

**Reproductive Toxicity:**

May damage fertility or the unborn child.

**Specific Target Organ Toxicity -Single Exposure:**

No data available.

**Specific Target Organ Toxicity -Repeated Exposure:**

No data available.

**Aspiration Hazard:**

No data available.

## SECTION12 ECOLOGICAL INFORMATION

**Toxicity:**

No data available.

**Persistence and Degradability:**

No data available.

**Bioaccumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

No data available.

## SECTION13 DISPOSAL CONSIDERATION

**Disposal Methods:**

Recycle as far as possible. If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should not be disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

## SECTION14 TRANSPORT INFORMATION

**RID/ADR (2023 Edition):** The product is not subject to RID/ADR.

**IATA DGR(65<sup>th</sup> Edition):** The product is not subject to IATA DGR.

**IMO IMDG CODE(2022 Edition):** The product is not subject to IMO IMDG Code.

Environmental No.

Hazards:

Special No data available.

Precautions for

User:

Transport in Bulk Not applicable.

according to

Annex II of MARPOL

73/78 and the IBC

Code:

## SECTION15 REGULATORY INFORMATION

Montreal Protocol:

Not listed.

Stockholm Convention:

Not listed.

Rotterdam Convention:

Not listed.

EINECS/ELINCS:

All ingredients in the product are listed.

TSCA:

All ingredients in the product are listed.

IECSC:

All ingredients in the product are listed.

## SECTION16 OTHER INFORMATION

Preparation Date:

2024-01-16

Preparation Department:

Shanghai Institute of Chemical Industry Testing Co., Ltd. Tel(Fax): +86-21-52815377/31765555

Revision:

0

Reference Standard:

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), 10<sup>th</sup> revised edition

Abbreviations and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission ACGIH: American Conference of Governmental Industrial Hygienists PC-TWA: Permissible concentration-time weighted average PC-STEL: Permissible concentration-short term exposure limit Sensitization: The substance may have allergenic effects G2B: Possibly carcinogenic to humans G1: Carcinogenic to humans TLV-TWA: Threshold limit value-time weighted average LD<sub>50</sub>: Lethal dose, 50% OECD: Organization for Economic Cooperation and Development ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations concerning the International Carriage of Dangerous Goods by Rail IMO IMDG CODE: International Maritime Organization International Maritime Dangerous Goods Code IATA DGR: International Air Transport Association Dangerous Goods Regulations IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk MARPOL: International Convention for the Prevention of Pollution from Ships EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances TSCA: Toxic Substances Control Act IECSC: Inventory of Existing Chemical Substances in China

**Other Information:**

This SDS is compiled based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

\*\*\*END OF REPORT\*\*\*

