



# Safety Data Sheet

according to Regulation (EC) No 1907/2006 and 1272/2008,  
Hazard Communication Standard 29 CFR 1910 (USA),  
WHS Regulations Australia,  
JIS Z 7253 (2012) Japan

## LaserForm® CoCr F75 Type A

Revision Date: July 27<sup>th</sup>, 2016

### 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY/UNDERTAKING

**1.1 Identification of the mixture:** Cobalt Alloy

**1.2 Type:** ASTM F75 CoCr alloy

Contains the following substances with hazardous properties: Cobalt

**1.3 Use of the preparation:** For use with ProX® DMP 320 printers

**1.4 Uses advised against:** No information

**1.5 Company/undertaking identification:**

3D Systems, Inc.  
333 Three D Systems Circle  
Rock Hill, South Carolina U.S.A.  
Phone: 803.326.3900 or  
Toll-free Phone: 800.793.3669  
e-mail: [moreinfo@3dsystems.com](mailto:moreinfo@3dsystems.com)  
Chemical Emergency:  
800.424.9300 – Chemtrec

3D Systems Europe Ltd.  
Mark House, Mark Road  
Hemel Hempstead  
Herts HP2 7 United Kingdom  
Phone: +44 144-2282600  
e-mail: [moreinfo@3dsystems.com](mailto:moreinfo@3dsystems.com)  
Chemical Emergency:  
703.527.3887 - Chemtrec

3D Systems / Australia  
5 Lynch Street  
Hawthorn, VIC 3122  
+1 03 9819-4422  
e-mail: [moreinfo@3dsystems.com](mailto:moreinfo@3dsystems.com)  
Chemical Emergency:  
+(61) 29037.2994 – Aus Chemtrec

### 2. HAZARDS IDENTIFICATION

**2.1 Classification**

**GHS Classification (29 CFR 1910.1200):**

**Regulation (EC) No. 1272/2008, HazCom 29 CFD 1910:**

Skin Sensitization	Category 1	H317
Eye irritant	Category 2	H319
Respiratory sensitization	Category 1	H334
Carcinogenic	Category 1	H350
Reproductive toxicant	Category 2	H361fd
Specific target organ toxicity-repeated exposure	Category 1	H372
Aquatic environment - acute hazard	Category 1	H400
Aquatic environment - long term hazard	Category 1	H410

**Regulation (EC) 67/548/EEC and 1999/45/EC:**

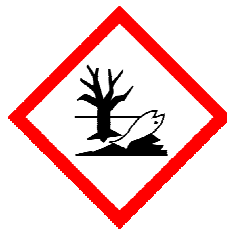
Xn; R20; R42/43; R51; R53

**2.2 Label Elements**

**Hazard pictograms and signal word (Regulation (EC) No. 1272/2008):**



GHS08



GHS09

**Signal word: Danger**



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**Hazard determining components of labelling:** Nickel, Cobalt

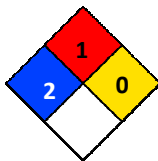
### Hazard statements:

H317: May cause an allergic skin reaction  
H319: Causes serious eye irritation  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H350: May cause cancer  
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child  
H372: Causes damage to organs through prolonged or repeated exposure  
H400: Very toxic to aquatic life  
H410: Very toxic to aquatic life with long lasting effects

### Precautionary statements:

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathing dust.  
P264: Wash hands thoroughly after handling  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only 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 and eye protection.  
P284: Wear respiratory protection.  
P302+352: IF ON SKIN: Wash with plenty of soap and water.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P314: Get medical attention if you feel unwell  
P333+313: If skin irritation occurs: Get medical advice/attention.  
P337+313: If eye irritation persists: Get medical attention  
P363: Wash contaminated clothing before reuse  
P391: Collect spillage

### NFPA rating



#### NFPA Ratings

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

#### Hazardous Materials Identification System (HMIS):

(Degree of hazard: 0 = low, 4 = extreme):

Health 2  
Flammability 2  
Physical Hazards 0

#### Personal Protection:

Skin, eye protection

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Chemical characterization:

**Description:** Metallic alloy powder



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### 3.2 Dangerous components:

Chemical name	CAS-No	EC-No	%	Classification	
				Regulation 67/548/EEG or 1999/45/EG	Regulation (EC) No. 1272/2008
Cobalt	7440-48-4	231-158-0	59-64	R42/43 R53	Resp. Sens. 1, H334 Skin Sens. 1, H317 Eye Irrit. 2, H319 Carc. 1, H350 Repr. 2, H361 Aqu. Acute 1, H400 Aqu. Chron. 1, H410
Chromium	7440-47-3	231-157-5	27-30	Not Applicable	Not Applicable
Molybdenum	7439-98-7	231-107-2	5-7	Not Applicable	Not Applicable
Manganese	7439-96-5	231-105-1	<1	R11 R15 F	Water react. 1, H260
Iron	7439-89-6	231-096-4	<0.75	R11	Flam. Sol. 1, H228
Silicium	7439-95-4	231-104-6	<1	R11	Flam. Sol. 1, H228

### 4. FIRST AID MEASURES

**4.1 General Information:** Ensure that eyewash stations and safety showers are close to the workstation location.

#### 4.2 Description of First Aid Measures

Skin contact: Wash off thoroughly with soap and water. If rash develops, seek medical attention.

Eye contact: Irrigate thoroughly with water, including under the eyelids, for at least 10-20 minutes. Obtain medical attention if irritation persists.

Inhalation: Move affected person to fresh air, rest and keep warm. In severe cases, if exposure has been great, or if respiratory irritation occurs, obtain medical attention.

Ingestion: Wash out mouth thoroughly with water. Obtain medical attention if further symptoms develop.

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

Skin Contact: Rash may develop.

Eye Contact: Mechanical irritation.

Inhalation: Possible asthma like symptoms.

Ingestion: No information

Chronic: Can cause an allergic skin reaction with repeated or prolonged exposure consisting of redness, swelling and/or rash (urticaria).

#### 4.3 Indications of any immediate medical attention and special treatment needed

Skin Contact: Treat symptomatically

Eye Contact: Treat symptomatically

Inhalation: Treat symptomatically

**4.4 Self-protection of the first aider:** Put on appropriate protective equipment (see section 8). Move exposed person to fresh air.



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### 5. FIRE-FIGHTING MEASURES

**5.1. Suitable extinguishing media:** The product itself is not flammable. Adapt extinguishing measures to surroundings. Use extinguishing type D powder or sand if available.

**5.2 Extinguishing media which must not be used for safety reasons:** High volume water jet.

**5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** increased fire hazard during dust formation.

**5.4 Special protective equipment for fire-fighters:** breathing protection in the presence of dust.

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### 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions:** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing.

**6.2 Environmental precautions:** Take precautions to ensure product does not contaminate ground or enter the sewer or drainage system.

**6.3 Methods for cleaning up:**

Wear appropriate protective equipment and clothing.

For containment:	not applicable
For cleaning up small spillage:	vacuum with equipment fitted with HEPA or immersion filtration.
For cleaning up large spillage:	solids should be carefully transferred to salvage containers. Any residues should be treated as small spillages.
Other information:	no information.

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### 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Protective measures:	Work using a suitable extraction/ventilation system.
Measures to prevent fire:	Not applicable.
Measures to protect the environment:	Use appropriate containment to avoid environmental hazard.
Advice on general occupational hygiene:	Avoid contact with skin and eyes. Do not breathe dust. Wash hand and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use.

**7.2 Conditions for safe storage**

Technical measures and storage conditions:	Store in sealed container in dry conditions and keep the container closed when not in use.
Packaging materials:	Keep in the container supplied, or suitable metal, plastic or polythene container.
Requirements for storage rooms and vessels:	Containers should be stored under cover in a clean and dry environment
Storage class:	Not applicable.
Further information on storage conditions:	Local regulations should be followed regarding the storage of this material.



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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Exposure limit values:

Exposure limits	OSHA/PEL	ACGIH/TLV
Cobalt	0.1 mg/m <sup>3</sup>	0.02 mg/m <sup>3</sup>
Chromium	1 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Molybdenum	15 mg/m <sup>3</sup> *	10 mg/m <sup>3</sup> **
Manganese	5 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Silicium	15/ 5 mg/m <sup>3</sup> (total/respiratory)	0.3 mg/m <sup>3</sup> (as SiO <sub>2</sub> )
Iron	No exposure limit established	

\* insoluble compounds, total dust

\*\* insoluble compounds, inhalable

#### 8.2 Exposure controls

##### Technical measures to prevent exposure:

Ensure adequate ventilation to maintain exposures below occupational limits. Whenever possible the use of local exhaust explosion proof ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

##### Instructual measures to prevent exposure:

Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the day.

##### Personal protection equipment:

**Respiratory protection:** If ventilation cannot effectively keep dust concentrations below established limits, appropriate certified respiratory protection must be provided. Use a dust mask or filter apparatus of minimal level FFP3 or N99.

**Hand protection:** Use impervious nitrile gloves.

**Eye protection:** Wear safety glasses or chemical goggles.

**Body protection:** Use long sleeved antistatic garments and closed, antistatic safety shoes.



### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Appearance:

**Physical state:** Powder

**Colour:** Dark gray

**Odour:** Odourless



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### 9.2 Important health, safety and environmental information

pH (20 °C):	NA
Melting point/range (°C):	1315 - 1540
Boiling point/range (°C):	No Data
Flash point (°C):	No Data
Ignition temperature (°C):	No Data
Vapour pressure (°C):	No Data
Density (g/cm <sup>3</sup> ):	8.4
Bulk density (kg/m <sup>3</sup> ):	No Data
Water solubility (20°C in g/l):	No Data
Viscosity:	NA
Auto-ignition temperature:	No Data
Decomposition temperature:	No Data
Dust explosion hazard:	No Data
Explosive properties	No Data
Oxidising properties	No Data
Particle size	100% <1mm

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### 10. STABILITY AND REACTIVITY

**10.1 Chemical Stability:** Stable under normal conditions and under recommended storage conditions

**10.2 Reactivity:** No data.

**10.3 Possibility of hazardous reactions:** No Data

**10.4 Conditions to avoid:** Prevent formation of dust clouds and accumulation of fines.

**10.5 Incompatible materials:** oxidizing agents. strong acids and strong bases.

**10.6 Hazardous decomposition products:** No data.

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### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Likely Routes of Exposure:

Inhalation, skin, eyes. Product as shipped does not present an inhalation hazard; however subsequent operations may create dusts or fumes which could be inhaled.

#### 11.2 Symptoms of Exposure:

Fines/dusts may irritate skin and eyes.

#### 11.2 Acute and chronic effects:

**Cobalt:** Acute exposure to cobalt metal dusts or fumes is characterized by irritation to the eyes, and to a lesser extent, irritation to the skin. Chronic exposure to cobalt metal dust or fumes may cause respiratory and dermatologic signs and symptoms. Chronic exposure to cobalt by inhalation in humans results in effects on the respiratory system, such as respiratory irritation, wheezing, asthma, decreased lung function, pneumonia, and fibrosis.

**Chromium:** Although much is known about the health effects of chromium compounds, the health effects of chromium metal, Cr(0), is not well studied. Due to insolubility most elements in their metallic state are not considered to be serious health hazards.

**Molybdenum:** No data

**Manganese:** Chronic inhalation exposure of humans to high levels of manganese may result in a syndrome called manganism which typically begins with feelings of weakness and lethargy and progresses to other symptoms such as gait disturbances, clumsiness, tremors, speech disturbances, a mask-like facial expression and psychological disturbances. Manganese is an essential micronutrient in humans.



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**Silicium:** No scientific data is available on the toxicity of silicium. This product is also not considered to be mutagenic, teratogenic or carcinogenic. Oral LD50 Rat: 3160 mg/kg

**Iron:** Irritating to the respiratory tract, iron compounds may cause pulmonary fibrosis if dusts are inhaled. Inhalation of large amounts may cause iron pneumoconiosis. Chronic inhalation of finely divided powder may cause chronic iron poisoning and pathological deposition of iron in the body tissue. Ingestion may cause vomiting, diarrhea, pink urine, black stool, and liver damage. Iron compounds may also cause damage to the kidneys.

**Acute Toxicity:** No data

**Carcinogenicity:**

**Cobalt:** NTP: R - reasonably anticipated to be a human carcinogen; **IARC:** 2B - possibly carcinogenic to humans

To the best of our knowledge the chemical, physical and toxicological characteristics of the substance are not fully known.

## 12. Ecological information

### 12.1. Toxicity

**Long-term Ecotoxicity** May cause long-term adverse effects in the aquatic environment

### 12.2. Persistence and degradability

<b>Abiotic Degradation</b>	No data available
<b>Physical-and photo-chemical elimination</b>	No data available
<b>Biodegradation</b>	Not readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioconcentration factor (BCF)** No data available

### 12.4. Mobility in soil

<b>Known or predicted distribution to environmental compartments</b>	No data
<b>Adsorption/Desorption</b>	No data available

### 12.7 Additional information

Do not allow product to enter drains. Do not flush into surface water. Do not let product contaminate subsoil.

## 13. DISPOSAL CONSIDERATIONS

**13.1 Appropriate disposal / Product:** Do not contaminate sewers, drains, soil or surface waters with this material. Reduce waste by attempting to utilize product completely. Dispose of this container and its contents in accordance with all local, state, and federal regulations.

**13.2 Packaging disposal:** Consult local and national guidelines for the disposal of discarded packaging.

**13.3 Additional information:** Prior to disposal 3D Systems recommends consulting your local waste disposal authority or an approved waste disposal firm to ensure regulatory compliance.



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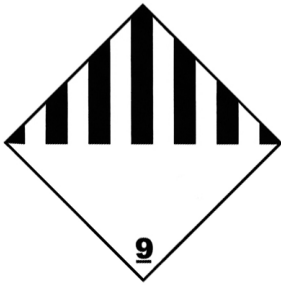
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### 14. TRANSPORT INFORMATION

<b>UN Number</b>	UN 3077
<b>UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s. (cobalt)
<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>Label(s)</b>	



**Environmental hazards**  
**Special precautions for user**

May cause long-term adverse effects in the aquatic environment  
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### 15. REGULATORY INFORMATION

#### 15.1 EU regulations

EINEC/ELINCS/NLP: All materials are listed  
REACH Annex XVII: None listed

#### 15.2. US FEDERAL

TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
United States inventory (TSCA 8b): All components are listed or exempted  
SARA 302/304: No products were found.  
SARA 311/312: Hazards identification: Immediate (acute) health hazard, Delayed (chronic) health hazard  
Clean Water Act (CWA) 307: chromium; Nickel

#### 15.3 Canada

WHMIS: Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).  
NPRI: The following components are listed: Cobalt (and its compounds); Chromium (and its compounds)

#### 15.4 Australian regulations

SUSDP, Industrial Chemicals Act 1989:  
Australian Inventory of Chemical Substances, AICS: Listed





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### 15.5 Japanese regulations

<b>Chemical Substance:</b>	Pneumoconiosis Act Dust Disability Prevention Rules
<b>Components:</b>	
Cobalt:	ISHL: Cobalt and its compounds, Deliver of Documents, etc. Articles 57-2.18-2 (MSDS), Table 9-172, $\geq 0.1\%$ Cobalt and its inorganic compounds, Labeling, etc. Articles 57.18. Table 9-04, $\geq 0.1\%$ Cobalt and its inorganic compounds, Specific Chemical Substances Disability Prevention Rules, 13-2 PRTR: Cobalt and its compounds, Designated Class I Substance, I-132 (previously 1-100), $\geq 1\%$ Ship Safety Act: Combustible material, Pyrophoric substance Combustible material, Flammable substance Aviation Law: Transport ban; combustible material, pyrophoric substance (194-1) Clean Air Act: Cobalt and its compound, Hazardous Air Pollutants/ No. 60 of Environmental Council 9th report Labor Standards Act: Cobalt and its compounds, Rule No. 75-2
Chromium:	Water Pollution Control Law: Designated Substance PRTR: Chromium and Chromium(III) compounds, Designated Class I Substance, I-87, $\geq 1\%$ ISHL: Chromium and Chromium(III) compounds, Articles 57-2 and 18-2, Table 9-142, $\geq 0.1\%$ Air Pollution Control Law: Hazardous Air Pollutants/Priority Initiative No. 49 Waste Disposal and Public Cleaning Law: Article 29
Manganese:	PRTR: Manganese and its compounds, Designated Class I Substance, I-412, $\geq 1\%$ ISHL: Manganese and its compounds, Articles 57-2 and 18-2, Table 9-550, $\geq 1\%$ Water Pollution Control Law: Designated Substance Specific Chemical Substances Disability Prevention Rules: Designated Substance, 2-33 Clean Air Act: Hazardous Air Pollutants, No. 225
Molybdenum:	Water Pollution Control Law: Designated Substance Clean Air Act: Hazardous Air Pollutants, No. 243

### OTHER INFORMATION

#### 16.1 Relevant Hazard Statements (number and full text) referred to in sections 2 and 3 (according to (EC) No. 1272/2008):

Skin sens. 1, H317- Skin sensitization, category 1, H317: May cause an allergic skin reaction  
Eye irrit. 2, H319- Eye irritant, category 2, H319: Causes serious eye irritation  
Resp. sens. 1 H334- Respiratory sensitization, H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
Carc.1, H350- Carcinogenicity, category 1, H350: May cause cancer  
Repr. 2, H361fd- Reproductive toxicant, category 2, H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.  
STOT RE 1, H372- Specific target organ toxicity-repeated exposure, category 1, H372: Causes damage to organs through prolonged or repeated exposure  
Aqu. Acute 1, H400- Aquatic environment – acute hazard, Category 1, H400: Very toxic to aquatic life.  
Aqu.Chron. 1, H410- Aquatic environment - long-term hazard, category 1, H410: Very toxic to aquatic life with long lasting effects  
Flam. Sol.1, H228- Flammable solids, category 1, H228: Flammable solid  
Water react. 1, H260- Water reactivity, category 1, H260: In contact with water releases flammable gases which may ignite spontaneously



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- P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathing dust.  
P264: Wash hands thoroughly after handling  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only 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 and eye protection.  
P284: Wear respiratory protection.  
P302+352: IF ON SKIN: Wash with plenty of soap and water.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P314: Get medical attention if you feel unwell  
P333+313: If skin irritation occurs: Get medical advice/attention.  
P337+313: If eye irritation persists: Get medical attention  
P363: Wash contaminated clothing before reuse  
P391: Collect spillage

### Relevant R-Phrases (number and full text) referred to in sections 2 and 3:

- Xn: Harmful  
R42/43: May cause sensitization by inhalation and skin contact  
R53: May cause long-term adverse effects in the aquatic environment  
R11: Highly flammable  
R15: Contact with water liberates extremely flammable gases  
F: Flammable

### 16.2 Further information:

SDS Creation Date: ..... July 27<sup>th</sup> 2016

SDS Revision #: ..... 00-A

SDS Revision Date: ..... -

Reason for Revision: ..... -

[www.3dsystems.com](http://www.3dsystems.com)

800.793.3669 (Toll-free in the US GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

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