

Safety Data Sheet

according to Regulation JIS Z 7253 (2012) Japan

LaserForm[®] Stainless 17-4PH Type ARevision Date: February 2nd, 2017

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

Chemical product name : LaserForm[®] Stainless 17-4PH
Chemical product detail : Stainless steel, UNS S17400, DIN 1.4542

Supplier information (Japan)

Company name : 3D Systems Japan K.K.
Address : Ebisu Garden Place Tower 27F
4-20-3, Ebisu, Shibuya-ku, Tokyo
150-6027 Japan
Phone number : 03-5798-2500
E-mail address : moreinfo@3dsystems.com
Emergency phone number : 03-4520-9637 – Chemtrec

Manufacturer information

Company name (USA) : 3D Systems Inc.
Address : 333 Three D Systems Circle
Rock Hill, South Carolina U.S.A.
Phone number : 803.326.3900
800.793.3669 (Toll free in the U.S.A)
E-mail address : moreinfo@3dsystems.com
Emergency phone number : 800.424.9300 – Chemtrec

Recommended use and restriction on use : For use with ProX[®] DMP 320 direct metal printer

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2. HAZARDS IDENTIFICATION

GHS Classification

Physicochemical hazards

Explosives	: Not applicable
Flammable gases (including chemically unstable gases)	: Not applicable
Aerosols	: Not applicable
Oxidizing gases	: Not applicable
Gases under pressure	: Not applicable
Flammable liquids	: Not applicable
Flammable solids	: Not classified
Self-reactive chemicals	: Not applicable
Pyrophoric liquids	: Not applicable
Pyrophoric solids	: Not classified
Self-heating chemicals	: Not classified
Substances and mixtures which, in contact with water, emit flammable gases	: Not classified
Oxidizing liquids	: Not applicable
Oxidizing solids	: Not applicable
Organic peroxides	: Not applicable
Corrosive to metals	: Classification not possible

Health hazards

Acute toxicity (oral)	: Classification not possible
Acute toxicity (dermal)	: Classification not possible
Acute toxicity (Inhalation: gas)	: Not applicable
Acute toxicity (Inhalation: vapour)	: Classification not possible
Acute toxicity (Inhalation: dust, mist)	: Classification not possible
Skin corrosion/irritation	: Classification not possible
Serious eye damage/eye irritation	: Category 2

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Respiratory/skin sensitization	:	Respiratory sensitization: Category 1 Skin sensitization: Category 1
Germ cell mutagenicity	:	Category 2
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Classification not possible
Target organ systemic toxicity (Single exposure)	:	Category 2 (respiratory system, kidney, digestive system, systemic toxicity) Category 3 (respiratory tract irritation)
Target organ systemic toxicity (Repeated exposure)	:	Category 2 (respiratory system)
Aspiration hazard	:	Classification not possible
Environmental hazard		
Hazard to the aquatic environment (acute)	:	Classification not possible
Hazard to the aquatic environment (long-term)	:	Classification not possible
Hazard to the ozone layer	:	Not applicable

GHS label elements

Pictogram or symbol :



Signal word : Danger

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- Hazard statements : H317: May cause allergic skin reaction
H319: Causes serious eye irritation
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335: May cause respiratory irritation
H341: Suspected of causing genetic defects
H351: Suspected of causing cancer
H371: May cause systemic toxicity
H372: Causes damage to respiratory system through prolonged or repeated exposure
- Precautionary statements
- Safety measures : P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/fume.
P264: Wash hands thoroughly after handling.
P270: When using do not eat, drink or smoke.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: [In case of inadequate ventilation,] wear respiratory protection.
- Response : P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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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.

P308+P311: IF exposed or concerned: Call a doctor/physician.

P312: Call a doctor/physician if you feel unwell.

P314: Get medical advice/attention if you feel unwell. 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 doctor/physician.

P362+P364: Take off contaminated clothing and wash it before reuse.

Storage : P403+P233: Keep in a cool, well-ventilated place. Keep container tightly closed.

Disposal : P405: Store locked up.

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

Other precautions : None.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture (metallic alloy)
Chemical/general name : Metallic alloy powder

Composition	CAS No.	Concentration or concentration range (%)	Reference number in gazetted list of Japan
Iron	7439-89-6	72-77	Not applicable
Chromium	7440-47-3	16-17 (16) *	Not applicable
Nickel	7440-02-0	4-5 (4.0) *	Not applicable
Copper	7440-50-8	3.5-4.5 (4.0) *	Not applicable
Molybdenum	7439-98-7	< 0.3	Not applicable

* : Concentrations in the parenthesis are typical.

4. FIRST AID MEASURES

If inhaled : 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.

If on skin : Wash off thoroughly with soap and water. If rash occurs, get medical attention/advise.

If in eyes : Irrigate gently but thoroughly, including under the eyelids, with water for at least 10 to 20 minutes. Obtain medical attention if irritation persists.

If ingested : Wash out mouth thoroughly with water. If symptom develops, get medical attention/advise.

Most important symptoms and effects, both acute and delayed :
If inhaled: Symptom like asthma
If on skin: Rash
If in eyes: Mechanical irritation.
If ingested: No information available

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- Self-protection of the first aider : Put on appropriate protective equipment (see section 8).
- Indications of any immediate medical attention and special treatment needed : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : The product itself is not flammable, but adapt extinguishing measures to surroundings against surrounding fire.
Use powder extinguisher for metal oxidation fire or sand to extinguish if available.
- Unsuitable extinguishing media : Do not use straight stream water including high volume water jets.
- Specific hazard arising from the chemical : Fire hazard is increased if dust is formed.
Fight fire from the windward.
- Special protective equipment for fire-fighters : Wear breathing protection in the presence of dust.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Keep unnecessary personnel away. Wear appropriate protective equipment and clothing.
- Environmental precautions : Take precautions to ensure product does not contaminate ground or enter the sewer or drainage system.

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Methods, materials for containment and cleaning up	:	Wear appropriate protective equipment and clothing. For containment: No information available. For cleaning up small spillage: Use a vacuum cleaner with equipment fitted with HEPA filter or immersion filtration. For cleaning up large spillage: Solids should be carefully transferred to suitable salvage containers. Any residues should be treated as small spillages with a vacuum cleaner.
Prevention of secondary disaster	:	Keep unnecessary personnel away. Prevent the formation of dust clouds.

7. HANDLING AND STORAGE

Handling

Engineering measures	:	Work using a suitable extraction/ventilation system. Prevent the formation of dust clouds. Use appropriate containment to avoid environmental hazard.
Contact avoidance (Incompatible materials)	:	Avoid contact with oxidizing substances, strong acids and strong alkalis.
Hygiene measures	:	Avoid contact with skin and eyes. Do not breathe dust. Do not blow dust off from clothing or skin with compressed air. Use good housekeeping and sanitation practices. Do not smoke nor eat food in work area. Wash hands thoroughly after handling and before eating/drinking/smoking, using the lavatory and at the end of the day. Contaminated clothing should be removed and washed before re-use.

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Storage

- Safety storage condition : Store in a sealable container in dry condition and keep the container closed when not in use.
Containers should be stored under cover in a clean and dry environment.
Store this product in accordance with related Acts/regulations.
- Safe materials for container : Keep in the container supplied, or suitable metal, plastic or polythene container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION EQUIPMENT

Exposure limit:

Substance	ISHL (Administrative level)	JSOH (Allowable exposure limit)	OSHA/PEL (US)	ACHIG/TLV (US)
Nickel	None	1 mg/m ³	1 mg/m ³	1.5 mg/m ³
Chromium	None	0.5 mg/m ³	1 mg/m ³	0.5 mg/m ³
Iron	None	None	None	None
Molybdenum	None	None	15 mg/m ³ *	10 mg/m ³ **
Copper	None	None	1 mg/m ³	1 mg/m ³

ISHL : Industrial Safety and Health Law, JSOH: The Japan Society for Occupational Health, * : Insoluble substance, total dust, ** : Insoluble substance, inhalable dust

- Facility measures : 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.

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It is recommended that eyewash stations and safety showers are close to the workstation location.

If a dusty work falls within a “dusty work” stipulated in Ordinance on Prevention of Hazards Due to Dust, take prevention measures against exposure of dusts stipulated in the ordinance.

Personal protection equipment

- Respiratory protection : If ventilation cannot effectively keep dust concentrations below exposure limits, an appropriate certified respiratory protection must be provided.
Use a dust mask equipped with the national certificated: filter for liquid particles of RL2 (replacement type), filter for solid particles of RS2 (replacement type), filter for liquid particle of DL2 (disposable type) or filter for solid particle of DS2 (disposable type), or a more effective performance dust mask with a filter.
- Hand protection : Use impervious nitrile gloves.
- Eye protection : Wear safety glasses or chemical goggles.
- Skin and body protection : Use long sleeved antistatic garments and antistatic safety shoes of closed type.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Physical state, appearance : Powder
- Color : Gray
- Odour : Odourless
- Odour threshold : No data available
- pH (20°C) : Not applicable

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Melting point (°C)	:	1400 to 1440
Boiling point, initial boiling point and boiling range (°C)	:	No data available
Flash point (°C)	:	No data available
Evaporation rate	:	No data available
Combustibility (solid, gas)	:	Incombustible
Ignition/Explosion limit, Lower limit, Upper limit	:	No data available.
Vapour pressure	:	No data available
Vapour density	:	No data available
Density (g/m ³)	:	7.8
Bulk density (kg/m ³)	:	No data available
Solubility	:	No data available
n-Octanol/water partition coefficient	:	Not applicable
Auto-ignition point (°C)	:	No data available
Decomposition point	:	No data available
Viscosity	:	Not applicable
Oxidizing property	:	No data available
Particle size	:	100% <1mm
Explanation for GHS classification	:	
Flammable solids	:	Product: Not classified (Incombustible)
Pyrophoric solids	:	Product: Not classified (Incombustible)
Self-heating chemicals	:	Product: Not classified (Incombustible)
Substances and mixtures which, in contact with water, emit flammable gases:	:	Product: Not classified Does not react with water to produce flammable gas (hydrogen gas).

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10. STABILITY AND REACTIVITY

Chemical Stability	:	Stable under normal handling and recommended storage conditions.
Reactivity	:	No data available
Possibility of hazardous reactions	:	No data available
Conditions to avoid	:	Prevent formation of dust clouds or accumulation of fines.
Incompatible materials	:	Oxidizing agents, strong acids and strong bases.
Hazardous decomposition products	:	No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral)	:	'Classification not possible' due to lack of data. Component information: Ingestion of iron may cause vomiting, diarrhea, pink urine, black stool, and liver damage. Iron compounds may also cause damage to the kidneys.
Acute toxicity (dermal)	:	'Classification not possible' due to lack of data.
Acute toxicity (Inhalation)	:	'Classification not possible' due to lack of data. Product as shipped does not present inhalation hazard; however subsequent operations may create dusts or fumes which could be inhaled.
Skin corrosion/irritation	:	'Classification not possible' due to lack of data. Dust and fume may irritate skin based on its physical effect.

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- Serious eye damage/eye irritation : Product: 'Category 2' because it contains 16-17% of Chromium of Category 2B.
Component information: Chromium: Category 2B.
Dust and fume may irritate eyes based on its physical effect.
- Respiratory/skin sensitization : Product: Respiratory sensitization: 'Category 1' because it contains 1% or more of components of Category 1.
Skin sensitization: 'Category 1' because it contains 1% or more of components of Category 1.
Component information: Nickel: Category 1 (Respiratory/skin sensitizers); Chromium: Category 1 (Respiratory/skin sensitizers).
Chromium and Nickel is classified as Group 2 (respiratory track), Group 1 (skin) by The Japan Society for Occupational Health.
- Germ cell mutagenicity : Product: 'Category 2' because it contains 1 % or more of Chromium of Category 2.
Component information: Chromium: Category 2.
- Carcinogenicity : Product: 'Category 2' because it contains 1 % or more of Nickel of Category 2.
Component information: Nickel: Category 2.
Nickel compounds (metallurgy dust) are classified as Group 1 (the agents which are carcinogenic to humans) (The Japan Society for Occupational Health).
Nickel and Nickel alloy are classified as Group 2B (Possibly carcinogenic to humans) (IARC).
Nickel fine dust is classified as Group A (EPA) and metal Nickel is classified as Group R (Reasonably anticipated to be human carcinogen) (NTP).

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- Nickel powder (diameter < 1 mm) is classified as Group 2 (Substances presumed to have carcinogenic potential for humans) (EU).
- Chromium metal is classified as Group 3 (Probably not carcinogenic to humans) (IARC).
- Reproductive toxicity : Classification not possible' due to lack of data.
- Component information: Chromium and Chromium compounds, Nickel and Nickel compounds are classified as Group 3 (the agents which are suspected reproductive toxicity to humans) (The Japan Society for Occupational Health).
- Target organ systemic toxicity (Single exposure) : Product: 'Category 2 (respiratory system, kidney, digestive system, systemic toxicity), Category 3 (respiratory tract irritation)' because it contains 1-10 % of Nickel of Category 1 (respiratory system, kidney), 1-10% of Copper of Category 1 (digestive system,), 10% or more of Chromium of Category 2 (systemic toxicity) and total of 20% or more of Chromium and Copper of Category 3 (respiratory tract irritation).
- Component information: Nickel: Category 1 (respiratory system, kidney); Copper: Category 1 (digestive system) and Category 3 (respiratory tract irritation); Chromium: Category 2 (systemic toxicity) and Category 3 (respiratory tract irritation); (all of NITE classification).
- Iron is irritating to the respiratory tract, iron compounds may cause pulmonary fibrosis if dusts are inhaled. Inhalation of large amounts may cause iron pneumoconiosis.

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- Target organ systemic toxicity : Product: 'Category 2 (respiratory system) because
(Repeated exposure) it contains 1-10 % of Nickel of Category 1
(respiratory system).
Component information: Nickel: Category 1
(respiratory system).
Chronic inhalation of finely divided Iron powder
may cause chronic iron poisoning and pathological
deposition of iron in the body tissue.
- Aspiration hazard : Not applicable

12. ECOLOGICAL INFORMATION

- Ecotoxicity :
Aquatic hazard (acute) : 'Classification not possible' due to lack of data.
Aquatic hazard (long-term) : Product: 'Category 4' because it contains 25 % or
more of Nickel of Category 4.
Component information: Nickel: Category 4
(Safety net classification (NITE))
- Persistence and degradability : Not readily biodegradable.
- Bio-accumulative potential : No data available.
(BCF)
- Mobility in soil : No data available.
- Hazard to the ozone layer : Not applicable. The component of the product is
not listed in annex of Montreal Protocol.
- Additional information : Do not allow this product to enter drains. Do not
flush into surface water. Do not let product
contaminate subsoil.

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13. DISPOSAL CONSIDERATIONS

- Residual product : Do not contaminate sewers, drains, soil or surface waters with this product. Reduce waste by attempting to utilize product completely. Dispose of this container and its contents in accordance with Waste Management and Public Cleansing Act and local/prefectural regulations.
- Contaminated container/packing : If there is a risk that dusts are released into a working place from a used container, take measures to prevent from releasing dusts. Dispose of a contaminated container/packing in accordance with Waste Management and Public Cleansing Act and local/prefectural regulations.
- Additional information : Prior to disposal, consulting your local waste disposal authority or an approved waste disposal firm to ensure regulatory compliance is recommended.

14. TRANSPORT INFORMATION

International regulations

- UN number : Not applicable
- UN proper shipping name : Not applicable
- UN class : Not applicable
- Packing group : Not applicable
- Marine pollutant : Not applicable
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC code : Not applicable

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Domestic Japanese regulations

- Land regulations : Not applicable
- Marine transport : Not applicable
- Air regulations : Not applicable
- Emergency response guidance : Not applicable
- No.
- Special safety measures : Always transport upright in closed containers that are upright and secure. Load the product in a way that does not cause tumbling, falling or damaging. Ensure to take measures to prevent load collapse. Confirm that product is transported by those familiar with the countermeasures needed in case of accidents and/or leakage.

15. REGULATORY INFORMATION

Industrial Safety and Health

Act

- Substance for labeling, etc. : Nickel and its compounds (No.418) (labelling: powder \geq 1wt%, SDS: \geq 0.1wt%)
and deliver of documents, Chromium and its compounds (No.142) (labelling: powder \geq 1wt%, SDS: \geq 0.1wt%)
etc. (Article 57 and 57-2) and Molybdenum and its compounds (No.603) (labelling: powder \geq 1wt%, SDS: \geq 0.1wt%)
for risk assessment (Article 57-3) Copper and its compounds (No.379) (labelling: powder \geq 1wt%, SDS: \geq 0.1wt%)
- Ordinance on Prevention of : Not applicable
- Organic Solvent Poisoning
- Ordinance on Prevention : Not applicable.
of Hazards due to Specified
Chemical Substances

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- Ordinance on Prevention of Lead Poisoning	:	Not applicable
Ordinance on Prevention of Hazards Due to Dust	:	If a dusty work falls within a “dusty work” stipulated in this ordinance, handle this product in accordance with the ordinance.
Labor Standards Act	:	Nickel and its compounds (except Nickel carbonyl) (symptom of illness/disorder: skin disorder) Chromium and its compounds (symptom of illness/disorder: skin disorder, respiratory track/lung disorder, nasal septum punch/olfactory disturbance)
Pneumoconiosis Act	:	If a dusty work falls within a “dusty work” stipulated in this Act, handle this product in accordance with the Act.
Poison and Deleterious Substance Control Act	:	Not applicable
PRTR Act	:	Class 1 designated substance: Chromium and trivalent chromium compounds (1-87), Nickel (1-308), Molybdenum and its compounds (1-453)
Fire Service Act:	:	Not applicable
Explosives Control Act	:	Not applicable
High Pressure Gas Safety Act	:	Not applicable
Ship Safety Act	:	Not applicable
Civil Aeronautics Act	:	Not applicable
Water Pollution Control Act	:	Effluent Standard: Chromium content, Dissolved iron content, Copper content. Substances subject to taking emergency measures and reporting in the Event of Accident: Iron and its compounds (No.52), Chromium and its compounds (No.50), Nickel and its compounds (No.45), Molybdenum and its compounds (No.46), Copper and its compounds (No.53).

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Sewerage Act	:	Effluent Standard: Chromium content, Dissolved iron content, Copper content.
Air Pollution Control Act	:	Hazardous air pollutants: Nickel and its compounds (No.148), Chromium and its compounds (No.49), Molybdenum and its compounds (No.243), Copper and its compounds (No.128).
Soil Contamination Countermeasures Act	:	Not applicable
Basic Environment Act	:	Soil environment standard: Copper (agricultural soil (only for rice field)) Substances requiring monitoring of water quality (public waters, groundwater): Nickel, Molybdenum. Substances requiring investigation of water quality: Copper
Waste Management and Public Cleansing Act	:	Chromium and its compounds (No.29) Nickel and its compounds (No.30)

16. OTHER INFORMATION

Reference:

- 1) SDS of LaserForm™Stainless 17-4PH Type A, EU and USA version (Revised on Jul. 27, 2016, SDS revision No.: 00-A)
- 2) Chemical Risk Information Platform (CHRIP),GHS classification result, Ministry of Health, Labour and Welfare and Ministry of the Environment, Government of Japan
- 3) Ministry of Environment, Chemical Substance Information Research Support System

Classification was performed according to JIS Z7252: 2014. Description was performed according to JIS Z7253: 2012.



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Further information:

SDS Creation Date: February 2nd, 2017

SDS Revision #: 01-A

SDS Revision Date: /

Reason for Revision: /

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