

1. Product and company identification

Product identifier

Trade name: 007G/U - Stainless Steel, Nickel-plated

This safety data sheet pertains to the following products:
7G3 - Nickel-plated Prosthetic Joint Bars for Knee Disarticulation
7U15 - Nickel-plated Prosthetic Joint Bars, medium duty
7U15=K - Nickel-plated Prosthetic Joint Bars, medium duty
7U25 - Nickel-plated Prosthetic Joint Bars, medium duty
7U26 - Nickel-plated Prosthetic Joint Bars, light duty

Recommended use and restrictions on use

General use: Refined steel-Article, Coating agent: Nickel
For orthopedic procedures.
Reserved for industrial and professional use.

Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.
Street/POB-No.: 5470 Harvester Road
Postal Code, city: Burlington, ON L7L 5N5, CA
Canada
WWW: www.ottobock.ca
E-mail: info.canada@ottobock.com
Telephone: (800) 665-3327
Telefax: (800) 463-3659

Department responsible for information:
Mark Agro, Telephone: (800) 665-3327 (9 am - 5 pm)

Additional information: Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

Emergency phone number

COLLECT, Telephone: (613) 996-6666
Transport:
CONSULTANK Lutz Harder GmbH (Contract QUALI003)
Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazards identification

Emergency overview

Appearance: Form: solid, in pieces
Color: silver gray
Odor: odorless
Classification: Article not subject to hazard labeling or classification.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS in Canada.

Hazards not otherwise classified

Coating agent Nickel: May cause sensitisation especially in sensitive humans.

For mechanical processing:

Processing, e.g. by cutting, sawing or grinding, can produce particles and dust. For risks which have to be observed thereby, see section 7: Handling, section 8: Exposure controls / personal protection and section 11: Toxicology.

Nickel-Powder:

May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Article of steel, stainless, coating agent: Nickel

4. First aid measures

In case of inhalation:	In case of troubles after inhalation of dust: Move victim to fresh air. Seek medical attention.
Following skin contact:	Metal-dust: Wash with plenty of water.
After eye contact:	Metal-dust: With eyelids open, wash out eyes for several minutes under flowing water. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:	Ingestion is not considered a possible route of exposure. Metal-dust: Rinse mouth and drink large quantities of water. Seek medical attention if problems persist.

Most important symptoms and effects, both acute and delayed

For mechanical processing:

Formation of potentially hazardous splinters.

In case of eye contact / In case of skin contact / In case of inhalation:

Dust: May cause irritations.

Nickel-Powder: May cause an allergic skin reaction.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

not combustible

Auto-ignition temperature:

No data available

Suitable extinguishing media:

Use extinguishing material as appropriate for the surrounding area.

Specific hazards arising from the chemical

Product is non-combustible.

6. Accidental release measures

- Personal precautions: Avoid generation of dust. Provide adequate ventilation.
In the case of the formation of dust: Wear protective equipment. Do not breathe dust.
Avoid contact with skin and eyes.
- Environmental precautions: Discharge into the environment must be avoided.
- Methods for clean-up: Metal parts/dust:
Take up mechanically, placing in appropriate containers for disposal.

7. Handling and storage

Handling

- Advices on safe handling: For mechanical processing:
Avoid respiration of swarf. Wear appropriate protective equipment.
Avoid contact with skin and eyes. Provide adequate ventilation.

Storage

- Requirements for storerooms and containers:
Store in a dry place.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value	
7440-02-0	007G/U - Stainless Steel, Nickel-plated	Canada: OEL 8 hour	10 mg/m ³ (Dust limit value, inhalable fraction)	
		Canada: OEL 8 hour	3 mg/m ³ (Dust limit value, respirable fraction)	
		Canada: OEL TWA	10 mg/m ³ (Dust limit value, inhalable fraction)	
		Canada: OEL TWA	3 mg/m ³ (Dust limit value, respirable fraction)	
		Canada: VEMP	10 mg/m ³ (total dust)	
		Canada: VEMP	3 mg/m ³ (total dust, respirable fraction)	
		USA: ACGIH: TWA	10 mg/m ³ (Dust limit value, inhalable fraction)	
		USA: ACGIH: TWA	3 mg/m ³ (Dust limit value, respirable fraction)	
		USA: OSHA: TWA	15 mg/m ³ (Dust limit value, total dust)	
		USA: OSHA: TWA	5 mg/m ³ (Dust limit value, respirable fraction)	
	Nickel	Canada: OEL 8 hour	1.5 mg/m ³ (metal)	
		Canada: OEL TWA	0.05 mg/m ³ (compounds, insoluble)	
		Canada: OEL TWA	0.05 mg/m ³ (compounds, soluble)	
		Canada: OEL TWA	1 mg/m ³ (metal, inhalable fraction)	
		Canada: VEMP	1.5 mg/m ³ (inhalable fraction)	
		USA: ACGIH: TWA	1.5 mg/m ³ (metal, inhalable fraction)	
		USA: IDLH: TWA	10 Ni/m ³	
		USA: NIOSH: TWA	0.015 mg/m ³	
		USA: OSHA: TWA	1 mg/m ³ (metal and insoluble compounds)	
		USA: OSHA: TWA	1 mg/m ³ (metal and soluble compounds)	

Additional information: Nickel: bound in the product

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: For mechanical processing:
Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010 or ANSI Z87.1-2003. or face protection shield.

Skin protection: For mechanical processing:
Wear suitable protective clothing.

For mechanical processing:
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: nitrile rubber-Breakthrough time: 480 min.

Respiratory protection: For mechanical processing:
Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Particulates filter P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:
For mechanical processing:
Do not breathe dust. Avoid contact with skin and eyes.
Wash hands before breaks and after work.
Provide a conveniently located eye rinse station.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: solid, in pieces Color: silver gray
Odor:	odorless
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	not combustible
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Product is stable under normal storage conditions.

Possibility of hazardous reactions:
No hazardous reaction when handled and stored according to provisions.

Conditions to avoid: No data available

Incompatible materials: No data available

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Lack of data.
Serious eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
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.

Symptoms

For mechanical processing:
Formation of potentially hazardous splinters.
In case of eye contact / In case of skin contact / In case of inhalation:
Dust: May cause irritations.
Nickel-Powder: May cause an allergic skin reaction.
Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Nickel-Powder: Harmful to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: Methods for the determination of biodegradability are not applicable to inorganic substances.

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight

General information: Discharge into the environment must be avoided.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation. Recycling.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

Environmental hazards

Marine pollutant:

no

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

No data available

USA: Department of Transportation (DOT)

Proper shipping name:

Not restricted

Canada: Transportation of Dangerous Goods (TDG)

Shipping name:

Not restricted

Sea transport (IMDG)

Proper shipping name::

Not restricted

Marine pollutant:

no

Air transport (IATA)

Proper shipping name::

Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - Canada

Nickel: DSL: listed

National regulations - U.S. Federal Regulations

This product is an article as defined by TSCA regulations, and is exempt from TSCA inventory listing requirements.

National regulations - U.S. State Regulations

Nickel: California Proposition 65: cancer

National regulations - EC member states

Further regulations, limitations and legal requirements:

Nickel-restrictions on use: Regulation (EU) No 1907/2006, annex VII, 27

16. Other information

Text for labeling:

Hazard rating systems:



Contains Nickel. May produce an allergic reaction.

NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

007G/U - Stainless Steel, Nickel-plated

Material number 007G/U

Revision date: 24/9/2024
Version: 8.4
Replaces version: 8.3
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Date of print: 2/9/2025

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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
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
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
EU: European Union
IATA: International Air Transport Association
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
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
TSCA: Toxic Substance Control Act
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Information System

Reason of change: Changes in section 8: Occupational exposure limit values

Date of first version: 27/11/2008

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.