

16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

Page: 1 of 9

1 Identification**Product identifier**

Trade name: 16/17x - Stainless Steel, contains Nickel < 1%

Other means of identification

This safety data sheet pertains to the following products:

16Y29 - Bar

17F34 - Limited Motion Ankle Joints for Children

17F35 - Stainless Steel Caliper Plate

17F47 - Dorsiflexion-Assist Ankle Joints for Children

17F53 - Ankle Joints for Children

Recommended use and restrictions on useGeneral use: Refined steel-Article 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
CanadaWWW: www.ottobock.caEmail: 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 telephone number****COLLECT, Telephone: (613) 996-6666****2 Hazard identification****Classification**

Article not subject to hazard labelling or classification.

Information elements

not applicable

16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

Page: 2 of 9

Other hazards known to the supplier with respect to the product

Contains 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.

3 Composition/Information on ingredients

Mixture

Chemical name: Article of steel, stainless, contains: < 0,3% Nickel (bound in the product)

4 First-aid measures

Description of necessary first-aid measures

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

Most important symptoms and effects, whether acute or delayed

Contains Nickel: May cause sensitisation especially in sensitive humans.

For mechanical processing:

Formation of potentially hazardous splinters.

Dust: May cause irritations.

Nickel-Powder: May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

Page: 3 of 9

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Specific hazards arising from the product

None known. Product is non-combustible.

Special protective equipment and precautions for fire-fighters

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

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 and material for containment and cleaning up

Metal parts/dust:
Take up mechanically, placing in appropriate containers for disposal.

7 Handling and storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store in a dry place.

16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

Page: 4 of 9

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7440-02-0	16/17x - Stainless Steel, contains Nickel < 1%	Canada: Alberta, OEL 8 hour	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: Alberta, OEL 8 hour	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: BC, OEL TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: BC, OEL TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: Québec, VEMP	10 mg/m ³ (total dust)
		Canada: Québec, VEMP	3 mg/m ³ (total dust, respirable fraction)
	Nickel	Canada: Alberta, OEL 8 hour	1.5 mg/m ³ (metal)
		Canada: BC, OEL TWA	0.05 mg/m ³ (compounds, insoluble)
		Canada: BC, OEL TWA	0.05 mg/m ³ (compounds, soluble)
		Canada: Ontario, OEL TWA	1 mg/m ³ (metal, inhalable fraction)
		Canada: Québec, VEMP	1.5 mg/m ³ (inhalable fraction)

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
7440-02-0	Nickel	USA: ACGIH-BEI, urine	30 µg/L	Nickel after exposure to soluble compounds	end of shift at end of work week
		USA: ACGIH-BEI, urine	5 µg/L	Nickel after exposure to elemental Nickel and poorly soluble compounds	end of shift at end of work week

Additional information: Nickel: bound in the product

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.

Individual protection measures, such as personal protective equipment

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.

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

16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

Page: 5 of 9

Eye 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.

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

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. Change contaminated clothing.

Consumer exposure controls

For mechanical processing:
Do not breathe dust.
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

Physical state at 20 °C and 101.3 kPa	Form: solid, in pieces
Colour:	silver gray
Odour:	odourless
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	not combustible
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Water solubility:	insoluble
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	No data available
Density and/or relative density	No data available
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Additional information: No data available

16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

Page: 6 of 9

10 Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended 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

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

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

Contains Nickel: May cause sensitisation especially in sensitive humans.
Nickel-Powder:
May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.
In case of inhalation: Dust: May cause irritations.
Lung damage is possible in a chronic situation.
After eye contact: Dust: May cause irritations.

12 Ecological information

Ecotoxicity

Aquatic toxicity:	Nickel-dust: Harmful to aquatic life with long lasting effects.
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16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

Page: 7 of 9

Persistence and degradability

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

Bioaccumulative potential

Partition coefficient — n-octanol/water:
No data available

Mobility in soil

No data available

Other adverse effects

General information: Discharge into the environment must be avoided.

13 Disposal considerations

Waste treatment methods

Product

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

14 Transport information

UN number

TDG, IMDG, IATA-DGR: not applicable

UN proper shipping name

TDG, IMDG, IATA-DGR: Not restricted

Transport hazard class

TDG, IMDG, IATA-DGR: not applicable

Packing group

TDG, IMDG, IATA-DGR: not applicable

Environmental hazards

Marine pollutant: no

Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

Page: 8 of 9

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

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling: Contains Nickel. May produce an allergic reaction.
Revision date: 2/3/2026
Date of first version: 26/11/2008
Reason of change: Changes in section 8: Biological Limit Value
Abbreviations and acronyms:
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
DSL: Domestic Substances List
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
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
TDG: Transportation of Dangerous Goods Regulation in Canada
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

Department issuing data sheet

Contact person: see section 1: Department responsible for information



SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR) 2022

16/17x - Stainless Steel, contains Nickel < 1%

Material number 016/17x

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Page: 9 of 9

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.